

## Technology (General)

Periodicals and societies. By language of publication

1 English

2 French

3 German

4 Other languages (not A-Z)

(5) Yearbooks  
see T1+

6 Congresses

Industrial museums, etc. see T179+

International exhibitions see T391+

7 Collected works (nonserial)

8 Symbols and abbreviations

Dictionaries and encyclopedias

9 General works

10 Bilingual and polyglot

Communication of technical information

10.5 General works

Information centers

10.6 General works

Special countries

United States

10.63.A1 General works

10.63.A2-Z By region or state, A-Z

10.65.A-Z Other countries, A-Z

10.68 Risk communication

10.7 Technical literature

10.8 Abstracting and indexing

Language. Technical writing

Cf. QA42 Mathematical language. Mathematical  
authorship

11 General works

11.3 Technical correspondence

11.4 Technical editing

11.5 Translating

11.8 Technical illustration

Cf. Q222 Scientific illustration

Cf. T351+ Mechanical drawing

11.9 Technical archives

Industrial directories

11.95 General works

By region or country

United States

12 General works

12.3.A-Z By region or state, A-Z

Subarrange each country by Table T4a

## Industrial directories

By region or country -- Continued

12.5.A-Z

Other regions or countries, A-Z

Subarrange each country by Table T4a

13

General catalogs. Miscellaneous supplies

14

Philosophy. Theory. Classification. Methodology

Cf. CB478 Technology and civilization

14.5

## Social aspects

Class here works that discuss the impact of technology on modern society

For works on the role of technology in the history and development of civilization see CB478

## History

Including the history of inventions

14.7

Periodicals, societies, serials, etc.

15

General works

16

Ancient

17

Medieval

18

Modern

19

19th-20th centuries

20

20th century

Including "technological wonders of the modern world"

## Special regions or countries

America. United States

21

General works

Special divisions (United States)

21.5.A-Z

By region, A-Z

e.g.

21.5.N4

New England

22.A-.W

States, A-W

22.5.A-Z

Cities, A-Z

## Canada

23.A1

General works

23.A3-Z

By region or province, A-Z

*Under each province:**.x**General works**.x3A-.x3Z**Special cities, A-Z*

24

Latin America. West Indies (Table T4)

25

South America (Table T4)

26

Europe (Table T4)

27

Asia (Table T4)

27.3

Arab countries (Table T4)

28

Africa (Table T4)

Australia

29.A1

General works

- History
  - Special regions or countries
    - Australia -- Continued
      - 29.A3-Z By region or state, A-Z
        - Under each state:*
          - .x *General works*
          - .x3A-.x3Z *Special cities, A-Z*
    - 29.5 New Zealand
    - 30 Pacific Islands (Table T4)
    - 31 Arctic regions
    - (32) Primitive peoples
      - see GN429+
    - 33 Lost arts
    - 35 Historical atlases of progress, invention, etc.
    - 36 Women in technology
    - 37 Industrial archaeology
      - For local areas see T21+
  - Biography
    - Including inventors
    - 39 Collective
    - 40.A-Z Individual, A-Z
      - Class preferably with special subject in classes TA-TT
- General works
  - 44 Before 19th century
  - 45 19th century and later
  - 47 Elementary and popular works. Home educators
  - 48 Juvenile works
  - 49 Pocketbooks. Receipts. Formulas
    - Early to 1800 see T44
  - 49.5 General special
    - Including international cooperation
  - Addresses, essays, lectures see T185
  - 50 Technical measurement
    - Cf. TA329+ Engineering mathematics
    - Cf. TS172 Tolerances
  - 50.5 Metric system in industry
    - Class metric system in special industries with the industry
    - Cf. QC90.8+ Metric system (General)
  - 51 Tables
    - Cf. TA151 Engineering (General)
    - Cf. TA635 Structural engineering (General)
    - Cf. TH151 Building (General)
    - Cf. TH434+ Estimates, quantities and cost (Building)
  - (54) Dangerous occupations. Industrial accidents
    - see HD7262+

## Industrial safety. Industrial accident prevention

Cf. TA169.7 System safety

Cf. TS175 Safety of consumer products

55.A1 Periodicals, societies, congresses, etc.

55.A2-Z General works

55.2 Study and teaching

55.25 Research

55.3.A-Z Special topics, A-Z

Including special measures and appliances

55.3.A87 Authorship of safety manuals

55.3.A93 Awards programs

55.3.B43 Behavior modification

55.3.B56 Biorhythms and industrial accidents

55.3.C6 Color as a safety measure

55.3.E44 Electronic alarm systems

55.3.E96 Explosion prevention and protection

55.3.G3 Gas masks. Respirators

55.3.H3 Hazardous substances

Cf. HE5623+ Transportation by country

Cf. TD1020+ Waste disposal

55.3.H45 Heights. High altitudes

55.3.L5 Lifting and carrying

55.3.M35 Manipulators

55.3.M37 Marking

55.3.P67 Posters

55.3.P75 Protective clothing

Radiation environment procedures and equipment see

TK9151.4+

55.3.S23 Safety helmets

55.3.S72 Statistical methods

Working at heights see T55.3.H45

## Industrial engineering

Including management engineering and management science

Class here works on the solving of management problems

concerned with design, improvement, and installation of complex industrial systems of men, materials, and equipment; employing the methods of operations research and engineering analysis and design, with stress on optimum use of resources. For applications in special fields, see the field

For works on the organization and operation of industrial institutions and business enterprises see HD28+

For wage and salary administration see HD4909+

For labor relations see HD6958.5+

For industrial psychology see HF5548.7+

For personnel management see HF5549+

For industrial safety see T55+

For engineering economy see TA177.4+

For production management see TS155+

55.4

Periodicals. Societies. Collections

55.45

Congresses

55.5

Dictionaries and encyclopedias

55.52

Symbols and abbreviations

55.54

Directories

55.6

History

Special countries

United States

55.7

General works

55.72.A-W

States, A-W

55.74.A-Z

Other American countries, A-Z

55.75.A-Z

Europe. By country, A-Z

55.76.A-Z

Africa. By country, A-Z

55.77.A-Z

Asia. By country, A-Z

55.775

Australia

55.778

New Zealand

Biography

55.8

Collective

55.85.A-Z

Individual, A-Z

General works

55.9

Early to 1930

56

Treatises

56.23

Pocketbooks, tables, etc.

56.24

General special

56.25

Addresses, essays, lectures

56.3

Industrial engineering as a profession. Industrial engineers.

Management consultants

Study and teaching

56.4

General works

56.42

Research

T

## TECHNOLOGY (GENERAL)

T

## Industrial engineering -- Continued

- 56.8 Project management
- Applied mathematics. Quantitative methods
- 57 General works
- 57.2 Problems, exercises, etc.
- Probability theory
- 57.3 General works
- Stochastic processes
  - Cf. TS160+ Inventory control
- 57.32 General works
- 57.33 Renewal theory
- Statistical methods
  - Cf. HA154+ Statistical data
  - Cf. TS156+ Quality control
  - Cf. TS173 Reliability
  - Cf. TS178.5 Line balancing
- 57.35 General works
- 57.36 Sampling theory
- 57.37 Experimental design
- 57.4 Schematic and graphic analysis
- 57.5 Data processing
  - Cf. HF5548.125+ Business data processing
- Operations research. Systems analysis
  - Cf. QA402+ Analytical methods connected with physical problems
- 57.6.A1 Periodicals, societies, etc.
- 57.6.A2-Z General works
- Simulation
  - Cf. QA76.9.C65 Computer science
  - Cf. TA343 Engineering mathematics
- 57.62 General works
- 57.64 Monte Carlo method
- Programming
- 57.7 General works
- Linear programming
- 57.74 General works
- Simplex model
- 57.76 General works
- 57.77 Allocation method
- 57.78 Transportation method
- 57.79 Stochastic programming
- Nonlinear programming
- 57.8 General works
- 57.815 Convex programming
- 57.817 Nonconvex programming
- 57.82 Quadratic programming
- 57.825 Geometric programming

- Industrial engineering
  - Applied mathematics. Quantitative methods
  - Operations research. Systems analysis
  - Programming -- Continued
  - 57.83       Dynamic programming
  - 57.84       Heuristic programming
  - 57.85       Network systems theory
    - Including network analysis
    - Cf. TS157.5+ Scheduling
  - 57.9        Queuing theory. Waiting line problems
  - 57.92       Game theory
    - Cf. HD30.26 Management games
  - 57.95       Decision theory
    - Cf. HD30.23 Administrative decisions
  - 57.97       Search theory
  - 58.4        Managerial control systems
  - Information technology. Information systems (General)
  - 58.5        General works
  - Management information systems
    - Cf. HD30.213 Industrial management
    - Cf. HF5549.5.C6+ Communication in personnel management
    - Cf. TS158.6 Automatic data collection systems (Production control)
  - 58.6        General works
  - 58.62       Decision support systems
    - Cf. HD30.213 Industrial management
  - 58.64       Management of information systems
  - Production capacity. Manufacturing capacity
    - Cf. HD69.C3 Economics
    - Cf. TS176+ Manufacturing engineering
  - 58.7        General works
  - 58.8        Productivity. Efficiency
  - Standardization
    - Cf. TA368 Standards (Collections, indexes, etc.)
  - 59.A1       Periodicals, societies, etc.
  - 59.A2-Z     General works
  - 59.2.A-Z    By region or country, A-Z
  - 59.4        Mechanization
  - 59.5        Automation
    - Cf. HD45.2 Economics
    - Cf. TA165 Engineering instruments
    - Cf. TJ212+ Automatic control
    - Cf. TJ1180+ Machine tools
    - Cf. TS156.8 Process control
  - Human engineering in industry. Man-machine systems
  - 59.7        General works

## Industrial engineering

Human engineering in industry. Man-machine systems --

Continued

59.72 Fatigue aspects of man-machine systems

59.77 Working environment

Cf. TS187 Plant utilities

## Work measurement. Methods engineering

Including time and motion study, work study, etc.

60.A2 Periodicals

60.A3-Z General works

## Work measurement

60.2 General works

Production standards

60.3 General works

60.35 Labor productivity

Cf. HD57 Economics

## Time study

60.4 General works

60.42 Standard times

60.45 Allowances

60.47 Setup time

## Predetermined motion time systems

60.5 General works

60.52 Methods time measurement

60.55 Work sampling

## Methods engineering

60.6 General works

60.7 Motion study

60.74 Machine assignments

60.8 Work design. Job design

## Technical education. Technical schools

Cf. LB1594+ Industrial training in the elementary school

Cf. LC1081+ Industrial education (Theory)

Cf. LC2780.5 Industrial education of blacks and African Americans

Cf. T175+ Industrial research

Cf. TT161+ Manual training

61 Periodicals, societies, etc.

62 Congresses

63 Dictionaries and encyclopedias

64 Directories

65 General works

65.3 General special

Including international cooperation

65.5.A-Z Special methods, A-Z

65.5.B5 Blackboard drawing

65.5.C3 Case method



- Technical education. Technical schools
- Special methods, A-Z -- Continued
  - 65.5.C65 Computer-assisted instruction
  - 65.5.M6 Motion pictures
  - 65.5.P7 Programmed instruction
  - 65.5.S47 Service learning
  - 65.5.S9 Synthetic training devices
  - 65.5.T4 Television
- History
  - 66 General works
  - 67 Ancient
  - 68 Medieval
  - 69 Modern
- Special countries
  - For special schools see T171+
  - 71 America
  - 72 North America
    - United States
      - 73 General works
      - 73.1 New England. North Atlantic States
      - 73.3 Southern States
      - 73.5 Central States
      - 73.7 Western States
    - 74.A-Z Special states, A-Z
    - 75.A-Z Special cities, A-Z
  - Canada
    - 76 General works
    - 77.A-Z Local, A-Z
  - Mexico
    - 78 General works
    - 79.A-Z Local, A-Z
  - Central America
    - 80 General works
    - 81.A-Z Special countries, A-Z
  - West Indies
    - 82 General works
  - Special countries or islands, A-Z
- South America
  - 84 General works
  - Argentina
    - 86 General works
    - 87.A-Z Local, A-Z
  - Bolivia
    - 88 General works
  - Brazil
    - 89.A-Z Local, A-Z
- 91 General works

## Technical education. Technical schools

## Special countries

## South America

## Brazil -- Continued

92.A-Z

## Local, A-Z

## Chile

93

## General works

94.A-Z

## Local, A-Z

## Colombia

95

## General works

96.A-Z

## Local, A-Z

97

## Ecuador

## Guiana

98

## Guyana

99

## Suriname

100

## French

101

## Paraguay

102

## Peru

103

## Uruguay

104

## Venezuela

## Europe

105

## General works

## Great Britain. England

107

## General works

107.5

## Colonies

108.A-Z

## English counties or cities, A-Z

## Ireland

109

## General works

110.A-Z

## Local, A-Z

## Scotland

111

## General works

112.A-Z

## Local, A-Z

## Wales

113

## General works

114.A-Z

## Local, A-Z

## Austria

115

## General works

116.A-Z

## Local, A-Z

(116.H8)

## Hungary

see T128.5

## Belgium

117

## General works

118.A-Z

## Local, A-Z

## Denmark

119

## General works

120.A-Z

## Local, A-Z

## France

## Technical education. Technical schools

## Special countries

## Europe

## France -- Continued

121

General works

122.A-Z

Local, A-Z

## Germany

Including West Germany

123

General works

124.A-Z

Local, A-Z

## East Germany

124.5

General works

(124.6.A-Z)

Local

see T124.A-Z

## Greece

125

General works

126.A-Z

Local, A-Z

## Holland

127

General works

128.A-Z

Local, A-Z

128.5

## Hungary

## Italy

129

General works

130.A-Z

Local, A-Z

## Norway

131

General works

132.A-Z

Local, A-Z

## Portugal

133

General works

134.A-Z

Local, A-Z

## Russia

135

General works

136.A-Z

Local, A-Z

## Spain

137

General works

138.A-Z

Local, A-Z

## Sweden

139

General works

140.A-Z

Local, A-Z

## Switzerland

141

General works

142.A-Z

Local, A-Z

## Turkey

143

General works

144.A-Z

Local, A-Z

146.A-Z

## Balkan States, A-Z

147.A-Z

## Other countries, A-Z

## Technical education. Technical schools

## Special countries -- Continued

## Asia

- 149 General works  
China
- 151 General works  
152.A-Z Local, A-Z
- India
- 153 General works  
154.A-Z Local, A-Z
- Japan
- 155 General works  
156.A-Z Local, A-Z
- Iran. Persia
- 157 General works  
158.A-Z Local, A-Z
- (159-160) Asia Minor  
see T143+
- (161-162) Siberia  
see T136
- 163.A-Z Other Asian countries, A-Z
- 164 Arab countries
- Africa
- 165 General works  
166.A-Z Special countries, A-Z
- Indian Ocean islands
- 166.5 General works  
166.6.A-Z Special divisions, A-Z
- Australia
- 167 General works  
168.A-Z Local, A-Z
- 168.5 New Zealand
- Pacific islands
- 169 General works  
170.A-Z Special divisions, A-Z

## Special schools

Including technical departments of universities

Cf. TT167.A+ Manual training schools

## American schools

- 171.A-Z General. By name, A-Z  
Under each school:  
     .xA1-.xA4                      *Official serials*  
     .xA5-.xA7                      *Official monographs*  
     .xA8-.xZ                        *Nonofficial publications. By author,*  
    *A-Z*
- 172.A-Z Correspondence schools. By name, A-Z

- Technical education. Technical schools
  - Special schools -- Continued
  - 173.A-Z Other schools. By city where located, A-Z
    - Expand Cutter number for city to provide alphabetical arrangement of schools, e.g.
  - 173.L832 Borough Polytechnic (London, England)
  - 173.L88 City of London Polytechnic
- Technological change
  - For technological innovations in economic history see HC79.T4
  - For economic aspects of technological innovations see HD45
- 173.2 General works
- Special countries
  - 173.4 United States
  - 173.5.A-Z Other countries, A-Z
- Inventions see T212
- 173.8 Technological innovations
- 174 Technological forecasting
- 174.2 Technology indicators
- 174.3 Technology transfer
  - Cf. HF1429 Foreign licensing agreements
- 174.5 Technology assessment
- 174.7 Nanotechnology
- Industrial research. Research and development
  - Cf. T56.42 Industrial engineering
  - Cf. TA160+ Engineering
  - Cf. TS171+ Product design
- 175 General works
- 175.5 Management. Organization
- 175.7 Research parks
- Special countries
  - 176 United States
  - 177.A-Z Others, A-Z
- 178.A-Z Special research laboratories. By name, A-Z
- Museums. Exhibitions of local societies
- 179 General works
- Special museums
  - United States
- 180.A1 General works
- 180.A2-Z By city and museum, A-Z
- 183.A-Z Other regions or countries, A-Z
  - Under each country:*
  - .x *General works*
  - .x2A-.x2Z *By city and museum, A-Z*
- 185 Addresses, essays, lectures

## Patents

For patents pertaining to particular subjects, see the subject, e.g.

TK7850 Patents in electronics

Cf. HD69.B7 Brand name products

201

Periodicals, societies, congresses, etc.

International patent conferences

203

General works. By date of conference

205

History and discussions of international agreements  
("conventions") resulting from the conferences

207

Collected works (nonserial)

Addresses, essays, lectures see T333

209

Dictionaries and encyclopedias

210

Patent literature

210.2

Translating. Translating services

210.5

Directories

211

Theory of patents

212

Inventors and inventions. How to invent

Cf. T14.7+ History of inventions

Cf. T173.8 Technology innovations

History of patents

By region or country

For patent law, see class K

America

221

General works (Table T5)

North America

222

General works (Table T5)

United States

223

General works (Table T5)

223.5

Confederate States of America (Table T5)

224.A-.W

States, A-W

Subarrange each by Table T6

225.A-Z

Cities, A-Z

Subarrange each by Table T6

Canada

226

General works (Table T5)

227.A-Z

Provinces, A-Z

Subarrange each by Table T6

227.5

Latin America (Table T5)

228

Mexico (Table T5)

Central America

230

General works (Table T5)

231.A-Z

Special countries, A-Z

Subarrange each by Table T6

West Indies

232

General works (Table T5)

233.A-Z

Special islands, A-Z

Subarrange each by Table T6

## Patents

## History of patents

## By region or country

## America -- Continued

## South America

234	General works (Table T5)
236	Argentina (Table T5)
238	Bolivia (Table T5)
241	Brazil (Table T5)
243	Chile (Table T5)
245	Colombia (Table T5)
247	Ecuador (Table T5)
248	Guyana (Table T5)
249	Suriname (Table T5)
250	French Guiana (Table T5)
251	Paraguay (Table T5)
252	Peru (Table T5)
253	Uruguay (Table T5)
254	Venezuela (Table T5)

## Europe

255	General works (Table T5)
	Great Britain. England
257	General works (Table T5)
259	Ireland (Table T5)
261	Scotland (Table T5)
263	Wales (Table T5)
264.A-Z	Cities or other special, A-Z
	Subarrange each by Table T6
265	Austria (Table T5)
265.3	Czechoslovakia (Table T5)
265.5	Hungary (Table T5)
	Belgium
267	General works (Table T5)
268.A-Z	Local or special, A-Z
	Subarrange each by Table T6
269	Denmark (Table T5)
271	France (Table T5)
273	Germany (Table T5)
275	Greece (Table T5)
277	Netherlands (Table T5)
279	Italy (Table T5)
280.5	Malta (Table T5)
281	Norway (Table T5)
283	Portugal, Azores, etc. (Table T5)
	Russia in Europe
285	General works (Table T5)

## Patents

## History of patents

## By region or country

## Europe

## Russia in Europe -- Continued

286.A-Z

## Local or special, A-Z

Subarrange each by Table T6

287

## Spain (Table T5)

288.5

## Scandinavia (Table T5)

289

## Sweden (Table T5)

291

## Switzerland (Table T5)

295.A-Z

## Other regions and countries, A-Z

295.A2

## Balkan Peninsula (Table T6)

295.A38

## Albania (Table T6)

295.A48

## Andorra (Table T6)

295.B3

## Baltic States (Table T6)

295.B43

## Belarus (Table T6)

295.B45

## Benelux countries (Table T6)

295.B9

## Bulgaria (Table T6)

295.F5

## Finland (Table T6)

295.I43

## Iceland (Table T6)

295.L285

## Lapland (Table T6)

295.L37

## Latvia (Table T6)

295.L78

## Lithuania (Table T6)

295.L9

## Luxemburg (Table T6)

295.P7

## Poland (Table T6)

295.P75

## Pomerania (Poland and Germany) (Table T6)

295.R6

## Romania (Table T6)

295.S55

## Slovenia (Table T6)

295.U95

## Ukraine (Table T6)

295.Y8

## Yugoslavia (Table T6)

## Asia

299

## General works (Table T5)

301

## China (Table T5)

For Hong Kong see T313.H85

302.5

## Taiwan (Table T5)

## South Asia

302.9

## General works (Table T5)

## India

303

## General works

304.A-Z

## Local or special, A-Z

Subarrange each by Table T6

304.5

## Pakistan (Table T5)

304.65

## Bangladesh (Table T5)

304.7

## Sri Lanka. Ceylon (Table T5)

305

## Japan (Table T5)



## Patents

## History of patents

## By region or country

## Asia -- Continued

306.5	Korea (Table T5)
	Including South Korea
306.7	North Korea (Table T5)
307	Iran. Persia (Table T5)
309	Russia in Asia. Siberia (Table T5)
311	Turkey. Asia Minor (Table T5)
313.A-Z	Other divisions of Asia, A-Z
313.A3	Afghanistan (Table T6)
313.B54	Borneo (Table T6)
313.B7	Brunei (Table T6)
313.B8	Burma. Myanmar (Table T6)
313.C16	Cambodia (Table T6)
313.C9	Cyprus (Table T6)
313.G39	Gaza Strip (Table T6)
313.H85	Hong Kong (Table T6)
313.I55	Indonesia (Table T6)
313.I7	Iraq (Table T6)
313.I75	Israel (Table T6)
313.J6	Jordan (Table T6)
313.K85	Kuwait (Table T6)
313.L28	Laos (Table T6)
313.L4	Lebanon (Table T6)
313.M2	Macau (Table T6)
313.M318	Malaya (Table T6)
313.M32	Malaysia (Table T6)
	Myanmar see T313.B8
313.N4	Nepal (Table T6)
313.P6	Philippines (Table T6)
313.Q36	Qatar (Table T6)
313.S33	Saudi Arabia (Table T6)
313.S53	Singapore (Table T6)
313.S6	Southeast Asia (Table T6)
313.S94	Syria (Table T6)
313.T48	Thailand (Table T6)
313.U54	United Arab Emirates (Table T6)
313.V5	Vietnam (Table T6)
313.W48	West Bank (Table T6)
313.Y45	Yemen (People's Democratic Republic) (Table T6)
313.5	Middle East (Table T5)
314	Arab countries (Table T5)
314.5	Islamic countries (Table T5)
	Africa
315	General works (Table T5)

## Patents

## History of patents

## By region or country

## Africa -- Continued

317	Egypt (Table T5)
319.A-Z	Other divisions of Africa, A-Z
319.A4	Algeria (Table T6)
319.A5	Angola (Table T6)
319.B57	Botswana (Table T6)
319.B85	Burundi (Table T6)
319.C17	Cameroon (Table T6)
319.C42	Central Africa (Table T6)
319.C43	Central African Republic (Table T6)
319.C75	Congo (Brazzaville) (Table T6)
	Congo (Democratic Republic) see T319.Z3
	Côte d'Ivoire see T319.I9
319.D3	Dahomey (Table T6)
319.D55	Djibouti (Table T6)
319.E18	East Africa (Table T6)
319.E19	Eastern Africa (Table T6)
319.E8	Ethiopia (Table T6)
319.F82	French-speaking Equatorial Africa (Table T6)
319.F83	French-speaking West Africa (Table T6)
319.G23	Gabon (Table T6)
319.G45	Ghana (Table T6)
319.G92	Guinea (Table T6)
319.G94	Guinea-Bissau (Table T6)
319.I9	Ivory Coast. Côte d'Ivoire (Table T6)
319.K4	Kenya (Table T6)
319.L45	Lesotho (Table T6)
319.L49	Liberia (Table T6)
319.L74	Libya (Table T6)
319.M28	Madagascar (Table T6)
319.M3	Malawi (Table T6)
319.M34	Mauritania (Table T6)
319.M6	Morocco (Table T6)
319.M85	Mozambique (Table T6)
	Namibia see T319.S68
319.N53	Niger (Table T6)
319.N54	Nigeria (Table T6)
319.R45	Rhodesia, Southern. Zimbabwe (Table T6)
319.R9	Rwanda (Table T6)
319.S18	Sahel (Table T6)
319.S38	Senegal (Table T6)
319.S5	Sierra Leone (Table T6)
319.S59	Somalia (Table T6)
319.S6	South Africa (Table T6)

## Patents

## History of patents

## By region or country

## Africa

## Other divisions of Africa, A-Z -- Continued

- 319.S64 Southern Africa (Table T6)
- 319.S68 Southwest Africa. Namibia (Table T6)
- 319.S73 Sub-Saharan Africa (Table T6)
- 319.S74 Sudan (Table T6)
- 319.S87 Swaziland (Table T6)
- 319.T35 Tanzania (Table T6)
- 319.T64 Togo (Table T6)
- 319.T8 Tunisia (Table T6)
- 319.U4 Uganda (Table T6)
- 319.U66 Upper Volta (Table T6)
- 319.W48 West Africa (Table T6)
- 319.Z3 Zaire. Congo (Democratic Republic) (Table T6)
- 319.Z34 Zambia (Table T6)
- Zimbabwe see T319.R45

## Indian Ocean islands

- 320 General works (Table T5)
- 320.5.A-Z Special islands, A-Z
- 320.5.M38 Mauritius (Table T6)
- 320.5.R48 Réunion (Table T6)

## Australasia

- 320.7 General works (Table T5)
- Australia
  - 321 General works (Table T5)
  - 322.A-Z Local or special, A-Z
    - Subarrange each by Table T6
- 322.5 New Zealand (Table T5)
- 322.7 Papua New Guinea (Table T5)

## Pacific islands

- 323.A1 General works (Table T6)
- 323.A5-Z Special islands, A-Z
  - Subarrange each by Table T6

- 323.2 Arctic regions (Table T5)
- 323.3 Antarctica (Table T5)
- 323.7 Developing countries (Table T5)

## 324 Designs and models of patents (General)

For special regions or countries see T221+

## 325 Trademarks

For special regions or countries, including trademarks for  
special products or industries of those regions or  
countries see T221+

## 333 Addresses, essays, lectures

Patents -- Continued

- 339 Inventors' manuals. Publications of patent solicitors
  - Including works on how to protect, patent, and merchandise inventions
- 342 Industrial design coordination
- Mechanical drawing. Engineering graphics
  - Cf. QA501+ Descriptive geometry
  - Cf. T11.8 Technical illustration
  - Cf. TA337+ Schematic and graphic methods in engineering
  - Cf. TJ227+ Machine drawing
- 351 Periodicals, societies, etc.
- 351.3 Dictionaries and encyclopedias
- 351.5 Study and teaching
- 352 Drawing-room management and practice
  - Cf. T375+ Drawing-room equipment and supplies
- 353 General works
- 353.5 Juvenile works
- 354 Problems, exercises, etc.
- 355 Structural drawing
  - Cf. NA2685+ Architecture
- 357 General special
  - Including tinting, standards
- 359 Freehand drawing for technical purposes
- 361 Technical blackboard drawing
- Projection
  - 362 General works
  - 363 Orthographic projection
    - Including axonometric and isometric projection
  - 365 Oblique projection
    - Including cavalier and cabinet projection
  - 369 Perspective projection
    - Cf. NC748+ Drawing, design, illustration (Fine arts)
- 371 Lettering
  - Cf. NK3600+ Alphabets, calligraphy and initials
  - Cf. NK8705+ Stonework
  - Cf. TT360.A1+ Signs
- Drawing instruments and materials
  - 375 General works
  - 377 Catalogs
  - 379 Working drawings and their use. Blueprint reading
    - Cf. TA175 Engineering drawings
    - Cf. TR915+ Reproduction of drawings
    - For works on using presentation graphics software packages see P93.52+

## Mechanical drawing. Engineering graphics -- Continued

## Computer-assisted drafting. Computer graphics

Class here works on computer graphics used for technical applications, or for unspecified purposes

For special applications, see the subject, e.g., TR267-TR267.5

Digital photography; P93.52-.53 Presentation graphics software packages; N7433.8-N7433.85 Computer art; N7433.9 Multimedia art

385

General works

386.A-Z

Special programs, A-Z

386.A97

AutoCAD

386.A974

Autodesk Inventor

386.W43

WebGL

386.Z33

ZBrush

## Exhibitions. Trade shows

Including the great national and international exhibitions

391

Periodicals. Societies. Collections

393

Documents

Cf. T395+ History

394

Directories

History

395

General works

395.5.A-Z

By region or country, A-Z

Organization, methods, classifications, etc.

Including display techniques

396

General works

396.5

Display technique. Pavilions

397.A-Z

Special. By city, A-Z

e.g.

397.C5

Chicago. World's Columbian Exposition, 1893

## Special exhibitions

402

Aberdeen (Table T2)

402.2

Accra (Table T2)

402.6

Addis Ababa, 1995 (Table T2)

403

Adelaide, 1897 (Table T2)

405

Agra, 1867 (Table T2)

Agram see T992

407

Alexandria (Table T2)

410

Algiers (Table T2)

412

Alma-Ata (Table T2)

Amsterdam

414

1859 (Table T2)

415

1869 (Table T2)

416

1883 (Table T2)

417

Antananarivo, Madagascar

Arrange by date; subarrange each by Table T2

419

Antwerp, 1930 (Table T2)

## Exhibitions

## Special exhibitions -- Continued

420	Antwerp, 1984 (Table T2)
424	Athens (Table T2)
	Atlanta
426	1881 (Table T2)
427	1895 (Table T2)
428.7	Baghdad (Table T2)
429	Bahia, 1872 (Table T2)
430	Baltimore (Table T2)
433	Barcelona (Table T2)
436	Basel (Table T2)
439	Batavia (Table T2)
439.3	Belgrad (Table T2)
439.5	Bergen, 1898 (Table T2)
440	Berlin (Table T2)
450	Birmingham (Table T2)
452	Bogota (Table T2)
452.5	Bolzano (Table T2)
453	Bombay (Table T2)
456	Bordeaux (Aquitaine) (Table T2)
460	Boston, 1883 (Table T2)
	Brisbane
463	1875 (Table T2)
463.2	1988 (Table T2)
464	Brno
	Arrange by date; subarrange each by Table T2
	Brussels
465	Before 1910
	Arrange by date; subarrange each by Table T2
467	1910 (Table T2)
468	1935 (Table T2)
469	1958 (Table T2)
475	Bucharest (Table T2)
	Budapest
478	1885 (Table T2)
479	1896 (Table T2)
479.2	1925 (Table T2)
479.3	Later
	Arrange by date; subarrange each by Table T2
	Buenos Aires
481	1875 (Table T2)
482	1880 (Table T2)
483	1882 (Table T2)
484	1910 (Table T2)
484.5	Later
	Arrange by date; subarrange each by Table T2

## Exhibitions

## Special exhibitions -- Continued

485	Buffalo, 1901 (Table T2)
486	Cadiz (Table T2)
487	Cairo (Table T2)
488	Calcutta (Table T2)
489	Calicut (Table T2)
491	Canton (Table T2)
494	Capetown (Table T2)
495	Caracas (Table T2)
496	Caserta, 1864 (Table T2)
	Charleroi
496.7	1911 (Table T2)
496.8	Later
	Arrange by date; subarrange each by Table T2
497	Charleston, 1901-1902 (Table T2)
	Chicago
499	1873 (Table T2)
499.5	1883 (Table T2)
500	1893 (Table T2)
501	1933-1934 (Table T2)
502	1992 (Table T2)
507.5	Chittagong (Table T2)
	Christiania see T797
	Cincinnati
515	1870-1872 (Table T2)
516	1888 (Table T2)
517	1935 (Table T2)
519	Ciudad Trujillo (Table T2)
	Cleveland
520	1909 (Table T2)
521	Later
	Arrange by date; subarrange each by Table T2
523	Colombo, Ceylon (Table T2)
525	Constantinople (Table T2)
535	Copenhagen (Table T2)
536	Cordoba, 1871 (Table T2)
537	Cork, 1852 (Table T2)
540	Curitiba, 1875 (Table T2)
541	Dairen
	Arrange by date; subarrange each by Table T2
543	Dallas, 1936-1937 (Table T2)
544	Delhi, India (Table T2)
545	Denver, 1882-1883 (Table T2)
	Detroit
550	1892 (Table T2)

## Exhibitions

## Special exhibitions

## Detroit -- Continued

551

## Later

Arrange by date; subarrange each by Table T2

552

## Djakarta (Table T2)

553

## Dnepropetrovsk, 1910 (Table T2)

555

## Dresden (Table T2)

## Dublin

560

## 1853 (Table T2)

561

## 1865 (Table T2)

563

## Dusseldorf (Table T2)

## Dunedin

565

## 1865 (Table T2)

566

## 1925-1926 (Table T2)

570

## Edinburgh (Table T2)

575

## Enugu, 1997 (Table T2)

590

## Florence (Table T2)

599

## Fukuoka (Table T2)

606

## Geneva (Table T2)

610

## Genoa, 1892 (Table T2)

615

## Ghent

Arrange by date; subarrange each by Table T2

## Glasgow

618

## 1888 (Table T2)

618.3

## 1938 (Table T2)

619

## Graz (Table T2)

619.5

## Guadalajara, 1880 (Table T2)

620

## Guatemala, 1878 (Table T2)

620.5

## Guimarães, 1884 (Table T2)

621

## Haarlem, 1861 (Table T2)

624

## Hague (Table T2)

627

## Hakodate (Table T2)

631

## Hamburg (Table T2)

632

## Hangchow

Arrange by date; subarrange each by Table T2

632.5

## Hannover, 2000 (Table T2)

## Hanoi

633

## 1902 (Table T2)

633.5

## Since 1902

Arrange by date; subarrange each by Table T2

635

## Havana (Table T2)

640

## Hong Kong (Table T2)

645

## Indianapolis (Table T2)

647

## Izmir (Table T2)

648

## Jamestown, 1907 (Table T2)

650

## Johannesburg (Table T2)



## Exhibitions

## Special exhibitions -- Continued

650.8	Kanazawa, Japan (Ishikawa Prefecture) (Table T2)
651	Karachi
	Arrange by date; subarrange each by Table T2
652	Khartoum
	Arrange by date; subarrange each by Table T2
653	Kiev (Table T2)
654	Kimberley, 1892 (Table T2)
655	Kingston, Jamaica, 1891 (Table T2)
658	Kishinev (Table T2)
670	Klagenfurt, 1838 (Table T2)
670.2	Knoxville, 1982 (Table T2)
670.4	Kobe-shi (Japan) (Table T2)
670.5	Kōchi, Japan
	Arrange by date; subarrange each by Table T2
670.7	Kure, Japan (Table T2)
670.8	Kyoto, Japan (Table T2)
671.3	Lagos (Table T2)
671.5	La Paz, Bolivia (Table T2)
671.8	Lausanne (Table T2)
673	Leeds (Table T2)
678	Leipzig (Table T2)
	Liège
679	1905 (Table T2)
679.3	1930 (Table T2)
679.5	Later
	Arrange by date; subarrange each by Table T2
680	Lima (Table T2)
681	Lisbon (Table T2)
684	Liverpool, 1886 (Table T2)
687	Loanda (Table T2)
	London
690	1851 (Table T2)
691	1862 (Table T2)
695	1871-1874 (Table T2)
695.5	1884 (Table T2)
695.6	1885 (Table T2)
696	1886 (Table T2)
	1887
697	General works (Table T2)
697.3	East London (Table T2)
698	1906 (Table T2)
699	1908 (Table T2)
700	1910 (Table T2)
700.2	1912 (Table T2)
700.5	1917 (Table T2)

## Exhibitions

## Special exhibitions

## London -- Continued

700.8

1928 (Table T2)

701

1929 (Table T2)

702

Later

Arrange by date; subarrange each by Table T2

703

Long Beach, Calif. (Table T2)

704

Los Angeles, Calif. (Table T2)

705

Louisville, Ky. (Table T2)

Arrange by date; subarrange each by Table T2

## Lyons

710

1894 (Table T2)

711

Later

Arrange by date; subarrange each by Table T2

712

## Madras

Arrange by date; subarrange each by Table T2

## Madrid

714

Before 1891

Arrange by date; subarrange each by Table T2

715

1891 (Table T2)

716

Later

Arrange by date; subarrange each by Table T2

718

Malmö, 1896 (Table T2)

719

Manchester, 1887 (Table T2)

723

Manila (Table T2)

725

Mar del Plata (Table T2)

727

Marseilles (Table T2)

729

Medellín, Colombia (Table T2)

## Melbourne

730

1861 (Table T2)

730.1

1866-1967 (Table T2)

730.6

1875 (Table T2)

731

1880-1881 (Table T2)

732

1888-1889 (Table T2)

739

Memphis (Table T2)

742

Mexico (City) (Table T2)

744

Milan (Table T2)

745

Milwaukee (Table T2)

748

Minneapolis (Table T2)

750

Minsk (Table T2)

750.4

Mogadishu, Somalia

Arrange by date; subarrange each by Table T2

751

Moji (Table T2)

752

Montreal (Table T2)

757

Moscow (Table T2)

760

Mukden (Table T2)

## Exhibitions

## Special exhibitions -- Continued

762	Munich (Table T2)
766	Nagasaki (Table T2)
766.5	Nagoya-shi (Japan) (Table T2)
768	Nancy (Table T2)
770	Nanking (Table T2)
773	Naples (Table T2)
774	Naruto-shi (Japan) (Table T2)
775	Nashville, 1897 (Table T2)
775.6	Neuchâtel, 2002 (Table T2)
	New Orleans
776	1854 (Table T2)
777	1884-1885 (Table T2)
778	1885-1886 (Table T2)
779	Later
	Arrange by date; subarrange each by Table T2
	New York
783	1853-1854 (Table T2)
784	1855-1938
	Arrange by date; subarrange each by Table T2
785	1939-1940 (Table T2)
786	Later
	Arrange by date; subarrange each by Table T2
787	Niagara Falls, 1926 (Table T2)
788	Nicosia (Cyprus)
	Arrange by date; subarrange each by Table T2
789	Novgorod (Table T2)
793	Odessa (Table T2)
796	Omaha, 1898 (Table T2)
796.5	Oporto (Table T2)
796.7	Osaka
	Arrange by date; subarrange each by Table T2
797	Oslo (Christiania) (Table T2)
797.5	Otaru, Japan (Table T2)
798	Panama (Table T2)
	Panama-Pacific exposition see TC781+
	Paris
799	Before 1855
	Arrange by date; subarrange each by Table T2
800	1855 (Table T2)
801	1867 (Table T2)
801.5	1875 (Table T2)
802	1878 (Table T2)
803	1889 (Table T2)
804	1900 (Table T2)

## Exhibitions

## Special exhibitions

## Paris -- Continued

805

Later

Arrange by date; subarrange each by Table T2

820

Peking (Table T2)

Philadelphia

825

1876 (Table T2)

826

1877-1879 (Table T2)

826.3

1926 (Table T2)

828

Pisa, 1868 (Table T2)

830

Pittsburgh (Table T2)

830.5

Plovdiv (Table T2)

830.7

Poona (Table T2)

831

Port-au-Prince, 1949-1950 (Table T2)

831.3

Port Louis, 1996 (Table T2)

832

Portland, Maine (Table T2)

Portland, Oregon

834

1905 (Table T2)

834.2

Later

Arrange by date; subarrange each by Table T2

835

Porto, 1865 (Table T2)

836

Prague (Table T2)

836.8

Pushkin (Russia) (Table T2)

837

Quito (Table T2)

Rio de Janeiro

839

Before 1875

Arrange by date; subarrange each by Table T2

840

1875 (Table T2)

841

1876-1907

Arrange by date; subarrange each by Table T2

843

1908 (Table T2)

844

Later

Arrange by date; subarrange each by Table T2

845

Rio Grande do Sul (Table T2)

850

Rome (Table T2)

860

St. Louis, 1904 (Table T2)

865

St. Paul (Table T2)

868

St. Petersburg (Table T2)

871

San Antonio, Texas (Table T2)

San Diego

872

1915 (Table T2)

872.3

Later

Arrange by date; subarrange each by Table T2

San Francisco

874

1894 (Table T2)

## Exhibitions

## Special exhibitions

## San Francisco -- Continued

875

1895-1914

Arrange by date; subarrange each by Table T2

1915. Panama-Pacific exposition see TC781+

876

Later

Arrange by date; subarrange each by Table T2

877

San José, 1886 (Table T2)

878

San Juan, Puerto Rico (Table T2)

Santiago de Chile

879

1872 (Table T2)

879.1

1873 (Table T2)

880

1875 (Table T2)

881

1942-1943 (Table T2)

882

1989

884

Sarajevo (Table T2)

888

Schwerin, 1861 (Table T2)

Seattle

890

1909 (Table T2)

890.2

Later

Arrange by date; subarrange each by Table T2

Seoul

891.5

1929 (Table T2)

892

1982 (Table T2)

Seville

894

1929-1930 (Table T2)

894.1

1992 (Table T2)

895

Shan-t'ou chuan ch'u, China (Table T2)

896

Shanghai (Table T2)

896.5

Shizuoka (Japan)

Arrange by date; subarrange each by Table T2

897

Singapore (Table T2)

898

Sofia (Table T2)

902

Spokane (Table T2)

903

Springfield, Mass. (Table T2)

910

Stockholm, 1897 (Table T2)

915

Strassburg (Table T2)

917

Stuttgart (Table T2)

920

Sydney, 1879-1880 (Table T2)

923

Taejŏn-si (Korea), 1993 (Table T2)

925

T'ai-pei (City) (Table T2)

926

Takayama-shi (Japan)

Arrange by date; subarrange each by Table T2

930

Tananarivo (Table T2)

933

Tbilisi, 1850 (Table T2)

934

Thessalonikē (Table T2)

## Exhibitions

## Special exhibitions -- Continued

## Tokyo

937

Before 1912

Arrange by date; subarrange each by Table T2

938

1912-

Arrange by date; subarrange each by Table T2

939

Toluca, Mexico (Table T2)

940

Toronto (Table T2)

941

Toyama (Table T2)

944

Trieste (Table T2)

945

Tripoli (Table T2)

946

Tsukuba Kenkyū Gakuen Toshi (Japan) (Table T2)

## Turin

947

1884 (Table T2)

948

Later

Arrange by date; subarrange each by Table T2

948.5

Ulm (Table T2)

948.7

Utsunomiya-shi (Japan) (Table T2)

949

Valladolid, 1850 (Table T2)

951

Valparaiso (Table T2)

953

Vancouver, B.C.

Arrange by date; subarrange each by Table T2

955

Venice (Table T2)

## Vienna

960

1873 (Table T2)

960.2

1995 (Table T2)

967

Villanueva y Geltrú (Table T2)

975

Warsaw (Table T2)

## Washington

983

1846 (Table T2)

984

Since 1846

Arrange by date; subarrange each by Table T2

986

Wellington, N. Z., 1885 (Table T2)

988

Wembley, Eng., 1924-1925 (Table T2)

990

Yokohama (Table T2)

992

Zagreb (Agram) (Table T2)

995

Zurich (Table T2)

	Engineering (General). Civil engineering (General)
	Periodicals and societies
1	English
2	French
3	German
4	Other languages (not A-Z)
5	Congresses
	Exhibitions. Museums
6.A1	General works
6.A2-Z	By region or country, A-Z
	Subarrange each country by Table T4b
7	Collected works (nonserial)
9	Dictionaries and encyclopedias
	Engineering literature see T10.7
11	Symbols and abbreviations
12	Directories of engineering companies and engineers
	History
15	General works
16	Ancient
17	Medieval
	Modern
18	To 1800
19	1800-
21-127	Country divisions (Table T1a)
	Add country number in table to TA0
	Class here general historical and descriptive literature, reports on public works, etc.
	Cf. HD3881+ Economic aspects of public works
	Biography
139	Collective
140.A-Z	Individual, A-Z
	General works. Civil engineering, etc.
144	Early to 1850
145	1850-
147	Elementary textbooks
148	Popular works
149	Juvenile works
151	Handbooks, manuals, etc.
	Cf. TA332 Pocketbooks, tables, etc. (Engineering mathematics)
	Cf. TA685 Tables of structural shapes and sections of steel and iron
152	Laboratory manuals
153	General special
155	Addresses, essays, lectures

TA	ENGINEERING (GENERAL). CIVIL ENGINEERING (GENERAL)	TA
	Engineering as a profession. Engineers Including working conditions, ethics, etc.	
157	General works	
157.5	Women in engineering. Women engineers	
	Industrial technicians Cf. TS155.4+ Manufacturing personnel	
158	General works	
158.3	Instrumentation technicians	
	Communication in engineering	
158.5	General works	
158.7	Computer network resources Including the Internet	
	Technical education. Technical schools see T61+	
159	Examinations, questions, etc.	
	Research	
160	General works	
	Special countries	
160.4	United States	
160.6.A-Z	Other regions or countries, A-Z	
	Bioengineering Cf. R856+ Medical engineering	
164	General works	
164.2	Bionics Cf. Q317+ Cybernetics	
164.4	Neuromorphics	
165	Engineering instruments, meters, etc. Industrial instrumentation Cf. TJ212+ Control engineering	
165.5	Coordinate measuring machines	
	Human engineering Class particular applications with the field of application, e.g. TL240+ Automobile design Cf. QP360.7 Neuroergonomics Cf. T59.7+ Industrial engineering	
166	General works	
167	Human-machine systems	
167.5	Neurotechnology Including neuroadaptive systems	
168	Systems engineering Cf. T57.6+ Systems analysis (Industrial engineering)	
168.5	Reverse engineering	
	Systems reliability Cf. TS173 Reliability of industrial products	
169	General works	
169.3	Accelerated life testing	



	System failures
	Including failure analysis
169.5	General works
169.55.A-Z	Special topics, A-Z
169.55.R66	Root cause analysis
169.6	Fault location
169.7	System safety
	Cf. T55+ Industrial safety
	Cf. TS175 Product safety
	Environmental engineering
	Cf. TD1+ Environmental technology
	Cf. TH6014+ Environmental engineering in buildings
170	General works
171	Environmental testing
174	Engineering design
175	Drawings and designs
	Cf. T351+ Mechanical drawing
177	Engineering models
	Engineering economy
	Cf. TS165+ Cost control. Value engineering
	Cf. TS181+ Planning for machinery. Tool life
177.4	General works
177.7	Cost effectiveness. Benefits-to-costs ratios
178	Valuation and depreciation
	Specifications
	Cf. HD2365+ Competitive letting of contracts in industry
	Cf. TH425 Construction of buildings
180	General works. Methods, etc.
181.A-Z	By region or country, A-Z
	Including the official manuals of public works
183	Estimates, quantities, and costs
	Cf. TH434+ Construction of buildings
185	Accounting for engineers
	Management of engineering works
190	General works
190.5	Office systems and records
191	Inspection of workmanship
	Cf. TH439 Building inspection
	Cf. TS156.2+ Inspection of manufactures
192	Safety measures
194	Planning of operations. Critical path analysis
	Engineering meteorology
197	General works
198	Industry and meteorology
	Class special industries and applications with the field e.g.
	TH7392.M6 Heating of factories

TA	ENGINEERING (GENERAL). CIVIL ENGINEERING (GENERAL)	TA
	Contractors' operations and equipment. Contracting Cf. TH11 Builders' and contractors' bulletins	
201	Periodicals	
210	General works	
	Engineering machinery, tools, and implements Cf. TA735+ Excavating machinery Cf. TH900+ Construction equipment in building construction Cf. TS181+ Planning for machinery	
213	General works	
214	Directories	
215	Trade and general catalogs, circulars, etc.	
	Consulting engineering Cf. T56.3 Management consultants	
	Directories see TA12	
216	General works	
217.A-Z	Special companies. By name, A-Z	
219	Forensic engineering	
(221-327)	Engineering law see class K	
	Engineering mathematics. Engineering analysis Cf. TA640+ Computational methods of structural engineering	
329	Periodicals. Societies. Collections. Congresses	
330	General works	
331	General special	
332	Pocketbooks, tables, etc.	
	Study and teaching	
332.5	General works	
333	Problems, exercises, examinations	
335	Numerical methods. Approximations	
	Schematic and graphic methods	
337	General works	
338.A-Z	Special topics, A-Z	
338.B6	Bond graphs	
338.F5	Flowgraphs	
338.G7	Graph theory	
338.N6	Nomograms	
340	Probabilistic and statistical methods	
	Mathematical models Cf. TA177 Engineering models	
342	General works	
343	Analogs. Simulation methods Cf. T57.62+ Industrial engineering	
	Electronic data processing. Computer-aided engineering	
345	General works	

Engineering mathematics. Engineering analysis  
Electronic data processing. Computer-aided engineering --  
Continued

345.5.A-Z	Special systems, A-Z
345.5.A57	ANSYS
345.5.A73	Architecture Analysis and Design Language
345.5.A98	AutoCAD Civil 3D
345.5.C66	COMSOL Multiphysics
345.5.D47	DesignCAD
345.5.I2	ICES
345.5.M16	MESY
345.5.M38	Mathematica
345.5.P37	Parallel processing Including use of Charm++
345.5.R73	RS/1
345.5.U53	UNISURF CAD
347.A-Z	Other specific mathematical aids in the solution of engineering problems, A-Z
347.A78	Artificial intelligence
347.B69	Boundary value problems
347.C3	Calculus of variations
347.C54	Closed circular ring problems
347.C6	Combinatorial analysis
347.C64	Complex analysis. Functions of complex variables Complex variables, Functions of see TA347.C64
347.C68	Coupled problems
347.D4	Determinants and matrices
347.D45	Differential equations
347.D5	Dimensional analysis
347.D52	Dimensionless numbers
347.D57	Distributed point source method
347.E96	Evolutionary computation
347.F5	Finite element method
347.F86	Functional analysis Functions of complex variables see TA347.C64
347.G46	Geometric methods
347.I5	Integral equations
347.L5	Linear algebras Matrices see TA347.D4
347.N46	Nets
347.N6	Normal numbers
347.T4	Tensor analysis
347.T7	Transfer functions
347.V4	Vector analysis
348	Power spectra

- Mechanics of engineering. Applied mechanics
  - For structural engineering see TA630+
  - For mechanics applied to machinery see TJ170+
  - Cf. TA405+ Mechanics of materials
- 349 Periodicals, societies, congresses, etc.
- 349.5 Dictionaries and encyclopedias
- 350 General works
- 350.2 Laboratory manuals
- 350.3 Addresses, essays, lectures
- 350.5 Study and teaching
- 350.7 Problems, exercises, examinations
- 351 Applied statics
- Applied dynamics
- 352 General works
- 353 Contact mechanics
- 354 Impact
- 354.5 Penetration mechanics
- 355 Vibration in engineering
  - Cf. TA654+ Structural engineering
  - Cf. TG265 Bridges
  - Cf. TH153 Building (General)
  - Cf. TJ208 Vibrators
- 356 Vibration of vehicles
  - For vibration of specific vehicles, see the type of vehicle, e.g.
  - TF Railroad vehicles; TL Motor vehicles
- Applied fluid mechanics
  - Including fluid dynamics
  - Cf. TC160+ Technical hydraulics
  - Cf. TJ267 Theory of turbines
  - Cf. TJ853+ Fluidics and fluidic devices
- 357 General works
- 357.3 Problems, exercises, etc.
- 357.5.A-Z Special topics, A-Z
  - Aerodynamics see TA358
- 357.5.A95 Axial flow
- 357.5.C38 Cavitation
- Computational fluid dynamics see TA357.5.D37
- 357.5.C65 Convection
- 357.5.C68 Counterflows
- 357.5.D37 Data processing. Computational fluid dynamics
- 357.5.F55 Flow visualization
- 357.5.F58 Fluid-structure interaction
- Fluid transients see TA357.5.U57
- 357.5.G47 Granular flow
- Mathematics see QA901+
- 357.5.M43 Measurements

- Mechanics of engineering. Applied mechanics
  - Applied fluid mechanics
    - Special topics, A-Z -- Continued
      - 357.5.M59 Mixing
      - 357.5.M84 Multiphase flow. Two-phase flow
      - 357.5.P58 Planar laser-induced fluorescence
      - 357.5.R44 Reduced gravity environments
      - 357.5.S57 Sloshing
      - 357.5.T87 Turbulence
      - Two-phase flow see TA357.5.M84
    - 357.5.U57 Unsteady flow
    - 357.5.V56 Viscous flow
  - 358 Aerodynamics in engineering
    - Cf. TL570+ Mechanics of flight
  - 359 Aerodynamics of vehicles
    - For aerodynamics of specific vehicles, see the vehicle, e.g.
      - TF Railroad vehicles; TL Motor vehicles
- Acoustics in engineering. Acoustical engineering
  - Class particular uses in the field of application, e.g. ML3805
    - Music; NA2800 Architectural acoustics; TK5981+ Electroacoustics
  - Cf. TA418.84 Acoustical properties of materials
  - Cf. TD891+ Noise control
  - Cf. TH1725 Sound control in buildings
  - Cf. TK5103.52 Acoustical telecommunication
- 365 General works
- 365.5 Anechoic chambers
- 367 Ultrasonics in engineering
  - Cf. TA417.4 Ultrasonic testing
- 367.5 Lasers in engineering
- 368 Standards (Collections, indexes, etc.)
  - Class special collections of standards by subject in T-TX, e.g.
    - TJ1330 Bolts and nuts
  - Cf. T59+ Standardization
- Materials of engineering and construction
  - Including building materials
    - For constitution and properties of matter see QC170+
- 401 Periodicals. Societies. Collections
- 401.3 Congresses
- Exhibitions
  - 401.6.A1 General works
  - 401.6.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 402 Dictionaries and encyclopedias
- 402.3 Directories of materials scientists
- 402.5.A-Z Special regions or countries, A-Z

## Materials of engineering and construction -- Continued

- 402.7 Developing countries
- 403 Treatises
- 403.2 Popular works. Juvenile works
- 403.4 Pocketbooks, tables, etc.
- 403.6 General special
  - Including transportation, quality control, etc.
- 403.8 Addresses, essays, lectures
- 403.9 Materials science as a profession
- 404 Study and teaching
- 404.2 Research
  - Cf. TA416+ General engineering and testing laboratories
- 404.23 Data processing
  - Including computer simulation
- 404.25 Communication in materials engineering
  - Including materials databases
- 404.3 Problems, exercises, etc.
- 404.5 Specifications and standards
- Specific characteristics of materials
  - For chemical properties, see QD, TN, and TP
  - For electric and magnetic properties, see QC501-QC764; TK
- Mechanical properties. Behavior of materials under applied forces
- 404.8 General works
- Strength of materials. Mechanics of materials
- 405 General works
- 407 General special
  - Including stress analysis
- 407.2 Pocketbooks, tables, etc.
- 407.4 Problems, exercises, examinations
- 407.6 Study and teaching
- 409 Failure of materials. Fracture
  - Cf. TA417.6 Deformation of materials
- 409.2 Service life of materials
- 409.3 Strengthening mechanisms
- Testing of materials (General and mechanical)
- 410 General works
- 412 Laboratory machines
- Testing machines
- 413 General works
- 413.5 Strain gages
- 413.85 Wear-testing machines
- General engineering and testing laboratories
  - Cf. TJ148 Mechanical engineering laboratories
- 416 General works
- 416.5.A-Z By region or country, A-Z

Materials of engineering and construction  
 Specific characteristics of materials  
 Mechanical properties. Behavior of materials under applied forces  
 Testing of materials (General and mechanical)  
 General engineering and testing laboratories --  
 Continued  
 417.A-Z Special laboratories. By name, A-Z  
 Nondestructive tests  
 417.2 General works  
 Acoustic emission testing see TA418.84  
 417.23 Microscopy  
 417.25 Radiographic examinations  
 417.3 Magnetic analysis  
 417.35 Electric analysis  
 417.36 Electromagnetic testing  
 Including eddy current testing  
 417.4 Ultrasonic testing  
 417.43 Optical characterization  
 417.45 Holographic testing  
 417.5 Infrared examinations  
 417.55 Penetrant inspection  
 417.6 Deformation of materials under stress  
 417.7.A-Z Behavior of materials under specific stresses, A-Z  
 For specific properties and tests, see the subject, e.g.  
 TA418+ Elastic properties and tests  
 For specific properties and tests, see the subject, e.g.  
 TA418.14+ Plastic (inelastic) properties and tests  
 Bending see TA417.7.F5  
 417.7.C6 Composite materials  
 417.7.C65 Compression  
 417.7.F5 Flexure  
 417.7.H53 High gravity  
 417.7.H55 High temperature  
 417.7.R43 Reduced gravity  
 417.7.S5 Shear  
 417.7.T4 Tension  
 417.7.T6 Torsion  
 Specific properties and tests  
 Elastic properties and tests  
 418 General works  
 418.12 Photoelasticity  
 Plastic (inelastic) properties and tests  
 418.14 General works  
 418.15 Photoplasticity  
 Ductile and brittle states

	Materials of engineering and construction
	Specific characteristics of materials
	Mechanical properties. Behavior of materials under applied forces
	Specific properties and tests
	Plastic (inelastic) properties and tests
	Ductile and brittle states -- Continued
418.16	General works
418.17	Notch effect
418.18	Strain hardening
418.2	Viscous flow. Viscoelasticity
418.22	Creep behavior
	Temperature-dependent properties and tests
	Including effects of temperature on yield strength, viscous flow, etc.
	Cf. TA418.52+ Thermal properties and tests
418.24	General works
418.26	Heat resistant materials. Refractory materials
	Cf. TN677+ Metallurgical furnaces and refractory materials
418.28	Cold resistant materials
	Time-dependent properties and tests
418.3	General works
	Dynamic properties
418.32	General works
418.34	Impact strength
	Endurance properties and tests
418.36	General works
418.38	Fatigue behavior
418.4	Mechanical wear
	Cf. TA418.72 Friction properties
418.42	Hardness properties and tests
418.45	Hard materials
	Physical properties
418.5	General works
	Thermal properties and tests
418.52	General works
418.54	Thermal conductivity
	Cf. TH1715+ Insulation and insulating materials
	Thermal expansion
418.56	General works
418.58	Thermal stresses
418.59	Space environmental effects and tests
418.6	Radiation effects and tests
418.62	Optical properties and tests
418.64	Moisture content



## Materials of engineering and construction

## Physical properties -- Continued

## Surface effects and tests

418.7

General works

418.72

Friction properties

Cf. TJ1075+ Lubrication and friction

Corrosion properties. Deterioration

Cf. TA462 Corrosion of metals

418.74

General works

418.75

Corrosion-resistant materials

418.76

Protective coatings

## Materials as particles, with tests

418.78

General works

418.8

Particle size determination

418.82

Porosity and denseness, with tests

418.84

Acoustical properties and tests

Cf. TH1725 Soundproof construction

Cf. TH1727 Acoustical materials

418.9.A-Z

## Materials of special composition or structure, A-Z

418.9.A25

Ablative materials

418.9.A58

Amorphous substances

418.9.B73

Braided structures

Cf. TA418.9.C6 fibrous composites

418.9.C57

Coatings

Cf. TA418.76 Protective coatings

Cf. TA446 Cement coating

Cf. TA491 Metal coating

Cf. TP156.C57 Coating processes

Cf. TP934+ Paints

Cf. TP935.A2+ Protective coatings

Cf. TP1175.S6 Spraying with plastics

Cf. TS653+ Plastic coating on metals

Cf. TS699 Powder coating of metals

418.9.C6

Composite materials

Including fibrous composites

Cf. TA481+ Metallic composites

418.9.C7

Crystalline solids

418.9.F5

Fibers

For fibrous composites see TA418.9.C6

418.9.F6

Foamed materials

418.9.F85

Functionally gradient materials

418.9.I53

Inhomogeneous materials

418.9.L3

Laminated materials

418.9.L53

Lightweight materials

418.9.L54

Liquid crystals

418.9.N35

Nanostructured materials

## Materials of engineering and construction

## Materials of special composition or structure, A-Z --

## Continued

418.9.P6

Porous materials

418.9.R37

Rare earths

418.9.R4

Reinforced materials

418.9.S62

Smart materials

418.9.S64

SPM materials

418.9.T45

Thin films

## Special materials

For design and construction in special materials see

TA663+

## Nonmetallic materials

418.95

## General works

## Wood

Cf. TA666+ Wooden construction

Cf. TS800+ Lumber and woodwork

Cf. TS920+ Chemical processing of wood

419.A1

Periodicals, societies, congresses, etc.

419.A2-Z

## General works

419.5

## Standards

420

## Strength and testing of wood

## Deterioration and preservation of wood

Cf. TC200 Deterioration of structures exposed to  
sea water

422

## General works

## Special destructive agents

Including their control

423

## General works

## Fungi. Decay

423.2

## General works

423.3

## Dry rot

423.4

## Stain fungi

## Insects

423.6

## General works

423.63

## Beetles

423.7

## Termites

## Preservation of wood

Cf. TT300+ Painting

424

## General works

424.2

## Testing

424.4

## Special preservation methods

Including pressure-impregnation

424.6.A-Z

## Special preservatives, A-Z

424.6.C7

## Creosote

424.6.F8

## Fungicides

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Wood

## Deterioration and preservation of wood

## Preservation of wood

## Special preservatives, A-Z -- Continued

424.6.O4

## Oil-soluble preservatives

424.6.R8

## Rubber

424.6.S3

## Salt

424.6.W3

## Water-soluble preservatives

## Masonry materials

## Cf. TA670+ Construction

425

## General works

## Stone

426

## General works

427

## Strength and testing of stone

428.A-Z

## Special kinds of stone, A-Z

428.L5

## Limestone

## Cf. TA428.T73 Travertine

428.M3

## Marble

428.T73

## Travertine

430

## Ceramic materials

## Artificial materials

431

## General works

## Brick, tile, terra cotta

432

## General works

433

## Strength and testing of brick, etc.

## Cement, lime, mortar, etc.

## Cf. TP875+ Cement industries

434

## General works

435

## Strength and testing of cement, etc.

## Mortar

436

## General works

437

## Strength and testing

438

## Cement composites

## Concrete

## Including Portland cement concrete

## Including mixing

439

## General works

440

## Strength and testing

## Including concrete corrosion

441

## Aggregates

## Including use of slag, clinkers, etc

442

## Concrete and timber

## Special types of concrete

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Masonry materials

## Artificial materials

## Concrete

## Special types of concrete -- Continued

442.5

General works

443.A-Z

By cementing substance, A-Z

443.A7

Asphalt

443.C64

Colloidal concrete

443.P58

Polymers

443.R4

Resin

## Reinforced concrete

444

General works

444.5

Prestressed concrete

444.52

Pre-tensioned prestressed concrete

444.53

Post-tensioned prestressed concrete

445

Strength and testing

445.5

Corrosion of reinforcing bars

Reinforcing bar practice see TA683.42

445.7

Self-consolidating concrete

446

Shotcrete. Gunite. Cement guns

447

## Pipes of cement, concrete, and clay

Including drain tiles, culverts, etc.

Cf. TP885.P5 Pipe manufacture

448

## Plastic pipes

Cf. TH6330 Plastic pipes in plumbing

Cf. TP1185.P5 Manufacture of plastic pipes

450

## Glass

Including fiber glass

455.A-Z

## Other nonmetallic materials, A-Z

455.A3

Abrasives

455.A34

Adhesives

455.A6

Asbestos

455.A62

Asbestos substitutes

455.A63

Ashes

Cf. TA455.F55 Fly ash

455.A7

Asphalt

455.B3

Bamboo

455.B5

Bituminous materials

455.B65

Borides

455.C3

Carbon

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Other nonmetallic materials, A-Z -- Continued

455.C43

## Ceramic materials (General)

For ceramic materials for heat-engines see TJ255.5

Cf. ML86 Music on ceramics

Cf. NK3700+ Art industries

Cf. R857.C4 Biomedical engineering

Cf. RK655 Ceramics in dentistry

Cf. TA430 Ceramic masonry materials

Cf. TA479.6 Ceramic metals

Cf. TK7871.15.C4 Electronics

Cf. TP785+ Chemical technology

Cf. TP825+ Ceramics, Architectural

Cf. TT919+ Pottery craft

455.C45

## Chromic materials

455.C55

## Clay minerals

455.C6

## Cork

455.C65

## Corundum

455.E4

## Elastomers

455.E5

## Enamels

455.E6

## Epoxy resins

455.F3

## Faolite

## Fiber glass see TA450

455.F5

## Fire clay

455.F54

## Fluorine compounds

455.F55

## Fly ash

Cf. TE210.5.F55 Soil stabilization materials

455.G44

## Geosynthetics

455.G65

## Graphene

455.G7

## Graphite

455.G73

## Gravel

455.G9

## Gypsum

455.L3

## Laterite

455.L6

## Loess

455.M5

## Mica

455.N5

## Nitrides

455.P4

## Peat

455.P45

## Perlite

455.P49

## Plant fibers

## Plastics

455.P5

## General works

455.P55

## Reinforced plastics

## Polymers

455.P58

## General works

## Materials of engineering and construction

## Special materials

## Nonmetallic materials

## Other nonmetallic materials, A-Z

## Polymers -- Continued

## Shape memory polymers

455.P585

455.R4

## Reed

## Refractory materials see TN677+

455.R8

## Rubber

455.S3

## Sand

455.S35

## Semimetals

455.S4

## Shale

455.S43

## Shells (Sea shells)

455.S46

## Silicates

455.S5

## Slag

455.S6

## Soil

455.S8

## Straw

455.S84

## Stucco

455.S93

## Sulfur

455.T3

## Talc

455.V4

## Vermiculite

455.W3

## Wallboard

## Metals

## Cf. TA684+ Metal construction

## Cf. TN689+ Metallography

459

## General works

460

## Strength and testing

461

## Specifications

462

## Corrosion and protection against corrosion

## Cf. TS653+ Metal finishing

## Cf. TT300+ Industrial and structural painting

463

## Liquid metals

## Cf. QC173.4.L56 Physics

## Iron and steel

## Cf. TN701.482+ Metallurgy

## Cf. UG408+ Iron and steel for land defenses

464

## General works

465

## Strength and testing

466

## Specifications

467

## Corrosion and protection against corrosion

## For stray currents from electric traction see TF912

## For electrolytic corrosion of underground lines see

TK3255

## Wrought iron

## Including specifications

469

## General works

## Materials of engineering and construction

## Special materials

## Metals

## Iron and steel

## Wrought iron -- Continued

470 Strength and testing

## Steel

Including specifications

472 General works

473 Strength and testing

## Cast iron

Including specifications

474 General works

475 Strength and testing

## Iron and steel alloys

478 General works

479.A-Z Special, A-Z

479.A4 Aluminum alloys

479.A88 Austenitic steel

479.B6 Boron steel

479.B7 Bulat steel

479.C37 Carbon steel

479.C5 Chromium steel

479.C7 Copper steel

Ferritic steel see TA479.S7

479.H43 Heat resistant steel

Cf. TA485 Heat resistant alloys

479.L54 Lightweight steel

Maraging steel see TA479.N5

479.N5 Nickel steel

479.S5 Silicon alloys

479.S7 Stainless steel

479.T8 Tungsten alloys

479.V3 Vanadium steel

479.3 Nonferrous metals

479.6 Ceramic metals

480.A-Z Special metals, including their alloys, A-Z

480.A6 Aluminum

Including duralumin

480.B4 Beryllium

480.C5 Chromium

480.C6 Cobalt

480.C7 Copper

Including brass and bronze

480.G4 Germanium

480.I53 Indium

## Materials of engineering and construction

## Special materials

## Metals

## Special metals, including their alloys, A-Z -- Continued

480.L4	Lead
480.L5	Lithium
480.M3	Magnesium
480.M35	Manganese
480.M4	Mercury
480.M6	Molybdenum
480.N6	Nickel
480.N63	Nickel-titanium alloys
480.N65	Niobium
480.P35	Palladium
480.R3	Rare earth metals
480.R5	Rhenium
480.R8	Rubidium
480.S5	Silver
480.T34	Tantalum
480.T5	Tin
	Including babbitt
480.T54	Titanium
480.T9	Tungsten
480.U7	Uranium
480.Y8	Yttrium
480.Z6	Zinc
480.Z65	Zirconium

## Metallic composites

481	General works
481.5	Fiber-strengthened composites

## Alloys

483	General works
483.3	Eutectic alloys
	Including hypereutectic and hypoeutectic alloys
484	Lightweight alloys
	Cf. TA480.A6 Aluminum
485	Heat resistant alloys
	Cf. TA479.H43 Heat resistant steel
	Cf. TA479.6 Ceramic metals
486	Corrosion-resistant alloys
487	Shape memory alloys
491	Metal coatings

Cf. TP1175.M4 Metal coating of plastics

Cf. TS590+ Metal manufactures

492.A-Z	Special forms and shapes in metal, A-Z
---------	--

492.A3	Adhesive joints
--------	-----------------



## Materials of engineering and construction

## Special materials

## Metals

## Special forms and shapes in metal, A-Z -- Continued

492.A6	Angles
492.B3	Balls
492.B63	Bolts and nuts
492.C6	Chains
492.C7	Columns
492.C9	Cylinders
492.F4	Fillets
492.F5	Flanges
492.G5	Girders
492.H6	Hooks
492.N2	Nails and spikes
492.P6	Pipes
492.P7	Plates
492.R6	Rivets
	Cf. TA891 Riveting
492.S25	Sandwich construction elements
492.S3	Screws
492.S5	Shafting
492.T4	Tee stiffeners
492.T8	Tubes
492.W4	Welded joints
492.W7	Wire
492.W77	Wire netting
492.W8	Wire rope

495

## Disasters and engineering

Cf. TC181 Earthquakes and hydraulic structures

Cf. TC530+ Flood control

Cf. TF539 Damage to railroads

Cf. TH1095 Earthquakes and building

## Surveying

501	Periodicals, societies, etc.
502	Congresses
504	Collected works (nonserial)
505	Dictionaries and encyclopedias
506	Directories
	History
514.7	Periodicals, societies, serials, etc.
515	General works
516	Ancient
517	Medieval
518	Modern
519	19th-20th centuries

	Surveying
	History -- Continued
520	20th century
521-531	Special regions or countries
	America. United States
521	General works
	Special divisions (United States)
521.5.A-Z	By region, A-Z
	e.g.
521.5.N4	New England
522.A-W	States, A-W
522.5.A-Z	Cities, A-Z
	Canada
523.A1	General works
523.A3-Z	By region or province, A-Z
	<i>Under each province:</i>
	.x <i>General works</i>
	.x3A-.x3Z <i>Special cities, A-Z</i>
524	Latin America. West Indies (Table T4)
525	South America (Table T4)
526	Europe (Table T4)
527	Asia (Table T4)
528	Africa (Table T4)
	Australia
529.A1	General works
529.A3-Z	By region or state, A-Z
	<i>Under each state:</i>
	.x <i>General works</i>
	.x3A-.x3Z <i>Special cities, A-Z</i>
529.5	New Zealand
530	Pacific islands (Table T4)
531	Arctic regions
	Biography
532	Collective
533.A-Z	Individual, A-Z
534	Surveying as a profession
	Study and teaching
535	General works
537	Examinations, questions, etc.
538.A-Z	By region or country, A-Z
	General works
544	Early to 1800
545	1800-
549	General special
551	Pocketbooks, field manuals, etc.
552	Tables

	Surveying -- Continued
555	Addresses, essays, lectures
556.A-Z	Special topics, A-Z
556.M38	Mathematics
	Instruments
562	General works
	Special instruments
563	Compass
565	Levels
571	Planetable
575	Theodolite and transit
579	Other instruments
581	Trade catalogs, circulars, etc.
583	Triangulation for engineering works
	Cf. QB311 Geodesy
	Cf. TA593.8+ Photographic triangulation
585	Traverses
588	Stadia surveying
590	Topographical surveying
	Photography in surveying, aerial surveying, etc.
	For special applications of photographic surveying, see the application
592	Periodicals. Societies. Serials
592.2	Congresses
592.3	Collected works (nonserial)
592.4	Dictionaries and encyclopedias
	History
592.5	General works
592.6.A-Z	By region or country, A-Z
	Subarrange each country by Table T4a
593	General works
593.2	General special
593.25	Handbooks, tables, etc.
593.3	Addresses, essays, lectures
593.35	Instruments, cameras, etc.
593.4	Photographic reading, interpretation, etc.
593.5	Mathematical models. Data processing
593.6	Standards, specifications, etc.
593.7	Stereophotogrammetry
	Photographic triangulation
593.8	General works
593.83	Strip adjustment. Block adjustment
593.9.A-Z	Other topics, A-Z
593.9.E75	Errors
	Graphic plotting see TA611
593.9.T54	Tilt

	Surveying -- Continued	
	Other methods. Compass surveying, etc.	
595	General works	
595.5	Satellite surveying	
597	Applications of astronomy	
	e.g. Azimuth observations	
	Cf. QB201+ Geodesy	
	Cf. VK563 Navigation	
601	Measurement of distances	
603	Measurement of angles	
	Leveling	
606	General works	
607	Spirit leveling. Precise leveling	
609	Trigonometric	
	Barometric hypsometry see QC895	
610.A-Z	Lists of bench marks. By country, A-Z	
611	Plotting	
	Computation of areas	
613	General works	
614	Planimeters	
	Class here works on application only	
616	Topographic drawing	
	Class here engineering works only	
	Cf. GA125 Cartography	
	Cf. UG470+ Military topography	
	Surveying for special purposes	
622	Public land	
623	Hydraulic surveying for engineering purposes	
	Hydrographic surveying see VK588+	
	City surveying see TD167	
	Geodetic surveying see QB301+	
	Geophysical surveying see TN269+	
	Landscape architectural surveying see SB475.9.S95	
	Military surveying see UG470+	
	Mine surveying see TN273	
	Railroad surveying see TF210+	
	Road surveying see TE209+	
625	Other special applications	
	Structural engineering (General)	
	For structural engineering of a specific kind of structure, see the structure, e.g. TC540 Dams; TG Bridges; TH Buildings; TJ Machinery; TL Vehicles; VM Ships	
	Cf. TA660.A+ Specific structural forms without regard to material used	
	Cf. TA663+ Structures in special materials, including their structural parts	

	Structural engineering (General) -- Continued
630	Periodicals, societies, congresses, etc.
631	Dictionaries and encyclopedias
	General works
632	Early to 1850
633	1850-
634	Juvenile works
635	Pocketbooks, tables, etc.
636	General special
637	Addresses, essays, lectures
638	Study and teaching
638.2	Research
638.5	Examinations, questions, etc.
	Structural engineering project management see TA190+
	Structural drawing see T355
	Computational methods
640	General works
640.2	General special
640.4	Problems, exercises, etc.
640.6	Graphic statics
	Cf. TG270 Graphic statics in bridge engineering
	Cf. TJ235 Graphic statics in mechanical engineering
640.8	Influence lines
641	Electronic computer methods
642	Matrix methods
643	Model analysis. Simulation methods
	Structural analysis. Theory of structures
645	General works
646	General special
647	Data processing
	Static loading conditions
648	General works
648.2	Dead loads
648.3	Stresses
648.4	Shear. Bending moments
648.5	Strains and deflections
	Statistically indeterminate structures
	Including the slope-deflection method, moment-distribution method, Cross method, Castigliano's theorem, three-moment theorem, etc.
650	General works
651	Continuous systems
652	Limit analysis. Plastic analysis. Yield stress analysis
653	Elastic analysis
	Dynamic loading conditions. Structural dynamics.
	Vibrations

	Structural engineering (General)
	Structural analysis. Theory of structures
	Dynamic loading conditions. Structural dynamics.
	Vibrations -- Continued
654	General works
654.15	Modal analysis
654.2	Impact loading
654.3	Live loads. Moving loads
654.4	Snow and ice loads
	Cf. TG304 Bridges
	Cf. TH895 Snow loads in building
654.5	Wind loads
	Cf. TG303 Wind pressure on bridges
	Cf. TH891 Wind pressure in building
654.55	Water wave loads
654.6	Earthquake forces
	Including general earthquake engineering
	Cf. QE539.2.S34 Earthquake safety measures and hazard analysis
	Cf. TA658.44 Earthquake resistant design
	Cf. TC181 Hydraulic structures
	Cf. TF539 Railroads
	Cf. TH1095 Earthquakes and building
654.7	Blast loads
	Cf. TA658.42 Blast resistant design
	Cf. TH1097 Bombproof construction
654.8	Thermal stresses
654.9	Dynamic control
	Stability of structures. Structural failure
656	General works
656.2	Buckling
656.3	Fatigue
656.4	Brittle fracture
656.5	Probability of safety
656.6	Structural health monitoring
	Structural design
	For design of structures of a specific material, see the specific material in TA663+
658	General works
658.2	General special
658.3	Pocketbooks, tables, etc.
658.35	Problems, exercises, examinations
	Structural design for dynamic loads
658.4	General works
658.42	Blast resistant design

## Structural engineering (General)

## Structural design

## Structural design for dynamic loads -- Continued

658.44

## Earthquake resistant design

Cf. TA654.6 Earthquake forces and earthquake  
engineering

Cf. TH1095 Earthquakes and building

658.48

## Wind resistant design

Cf. TA654.5 Wind loads

Cf. TH891 Wind pressure in building

658.6

## Limit design. Plastic design

658.8

## Structural optimization

660.A-Z

## Specific structural forms, analysis, and design, A-Z

660.A53

## Angles

660.A7

## Arches

Cf. TG327+ Arched bridges

Cf. TH2150+ Arches in building detail

660.B3

## Bars

660.B4

## Beams

Cf. TG350+ Beams and girders of bridges

660.B43

## Beams, Continuous

660.B45

## Bearings

Cf. TJ1061+ Mechanical engineering

660.C3

## Cables. Cable structures

660.C37

## Castellated beams

660.C47

## Channels

660.C6

## Columns

660.C9

## Cylinders

660.D52

## Diaphragms

660.D6

## Domes

Cf. TH2170+ Domes in building detail

660.E9

## Expansion joints

Cf. TJ424 Pipe fittings

Cf. TL784.E9 Rockets

660.F53

## Flexible structures

660.F57

## Flitch beams

660.F6

## Floors (General)

Cf. TH2521+ Floors in building design and construction

660.F7

## Frames

660.F72

## Frames, Continuous

660.F73

## Frames, Multistory

## Girders, Plates see TA660.P59

660.G7

## Grillages

660.H66

## Honeycomb structure

660.H97

## Hyperboloid structures

660.J64

## Joints

## Structural engineering (General)

## Specific structural forms, analysis, and design, A-Z --

## Continued

- 660.P55 Pipelines
- 660.P59 Plate girders
- 660.P6 Plates
- 660.P63 Plates, Folded
- 660.P65 Plates, Twisted
- 660.P73 Polyhedra
- Pressure vessels see TA660.T34
- 660.S3 Sandwich elements
- 660.S5 Shells
  - Cf. TH2416+ Shell roofs of buildings
- 660.S6 Slabs
- 660.S63 Space frame structures
- 660.S66 Steel beams
- 660.S67 Steel-wood I-beams
- 660.S7 Struts
- 660.T34 Tanks. Pressure vessels
  - Cf. TF271 Tank tanks
  - Cf. TH4935 Silos
  - Cf. TP692.5 Petroleum storage tanks
  - Cf. TP756 Gasholders
  - Cf. TP756.5 Underground storage
- 660.T46 Tensile architecture
- 660.T48 Thick-walled elements
- 660.T5 Thin-walled elements
- 660.T6 Towers
- 660.T8 Trusses
  - Cf. TG375+ Truss bridges
  - Cf. TH2392 Roof trusses
- 660.W3 Walls (General)
  - Cf. TH2201+ Walls in building detail
- Design and construction in special materials
  - For properties of special engineering materials without regard to their structural use see TA418.95+
- 663 Lightweight construction
  - Cf. TH1100 Building construction
- 664 Composite design and construction
- 665 Prestressed construction
- Wooden construction
  - Cf. TH1101 Building construction
- 666 General works
- 666.5.A-Z Individual structural members, A-Z
  - 666.5.B43 Beams
  - 666.5.J64 Joints



	Structural engineering (General)
	Design and construction in special materials
	Wooden construction
	Individual structural members, A-Z -- Continued
666.5.P35	Panels. Paneling
668	Plastic construction
	Masonry construction
	Cf. TH1199+ Building construction
	Cf. TH5311+ Practical masonry
670	General works
672	Stereotomy
	Cf. TH5401+ Stonecutting
676	Stone
	Cf. TH1201 Building construction
679	Brick
	Cf. TH1301 Building construction
	Cement and concrete
	Cf. TH1461+ Building construction
680	Periodicals. Societies. Congresses
680.5	Directories
681	General works
	Analysis and design of structures
681.5	General works
682	Pocketbooks, tables, etc.
682.25	Specifications and standards
682.26	Estimates and costs
682.3	Joints. Hinges
	Practical construction methods
682.4	General works
682.42	Amateurs' manuals
682.43	Cold weather conditions
682.44	Formwork
682.445	Bearing pads
682.446	Maintenance and repair
682.45	Pump placing
682.455	Roller compacting
682.46	Vibration processes
682.47	Vacuum processes
682.48	Hot weather conditions
682.485	Underwater construction
682.49	Finishing processes
682.5.A-Z	Individual structural members, A-Z
682.5.S5	Slabs
	Reinforced concrete construction
	Cf. TA444+ Construction materials
	Cf. TH1501 Building construction

## Structural engineering (General)

## Design and construction in special materials

## Masonry construction

## Cement and concrete

## Reinforced concrete construction -- Continued

Periodicals. Societies. Congresses see TA680

683

## General works

## Analysis and design of structures

683.2

## General works

683.22

Pocketbooks, tables, etc.

683.23

Examinations, questions, etc.

683.24

Specifications and standards

683.26

Estimates

683.28

Drawings. Detailing

683.3

## Joints

## Practical construction methods

683.4

## General works

683.42

## Reinforcing bars

Cf. TA445.5 Corrosion of reinforcing bars

683.44

## Formwork

683.45

## Inserts

683.46

## Vibration methods

683.5.A-Z

## Individual structural members, A-Z

683.5.B3

## Beams

683.5.C7

## Columns

683.5.F8

## Frames

683.5.P35

## Panels

683.5.P65

## Poles

683.5.S4

## Shells

683.5.S6

## Slabs

683.5.T7

## Trusses

683.5.W34

## Walls

683.7

## Precast construction

For individual members see TA683.5.A+

## Prestressed concrete construction

For individual members see TA683.5.A+

683.9

## General works

683.94

## Post-tensioned prestressed concrete construction

## Metal construction

## Iron and steel

Cf. TA890+ Cutting, bending, riveting of iron and steel

684

## General works

685

Catalogs. Pocketbooks, tables, etc.

690

## Aluminum and aluminum alloys

695.A-Z

## Other metal construction, A-Z

	Engineering geology. Geotechnical engineering
	Cf. TC542 Dam geology
703	Periodicals. Societies. Serials
703.5	Congresses
704	Dictionaries and encyclopedias
705	General works
	By region or country
	United States
705.2	General works
705.3.A-Z	By region or state, A-Z
705.4.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a
	Rock mechanics
706	General works
706.3	Drill cores
706.5	Testing methods
709	Rockfills
709.5	Residual materials
	Soil mechanics
	Including properties of soils, water in soil, strength properties, consolidation, etc.
	Cf. TE208+ Soil surveys in highway engineering
	Cf. TL243+ Dynamics of motor vehicles
710.A1	Periodicals, societies, congresses, etc.
710.A15	Dictionaries and encyclopedias
710.A2-Z	General works
	By region or country
	United States
710.2	General works
710.3.A-Z	By region or state, A-Z
710.4.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a
710.5	Laboratory manuals. Testing of soils. Measurements
	Soil dynamics
711.A1	Periodicals, societies, congresses, etc.
711.A2-Z	General works
711.5	Soil-structure interaction
712	Underground construction
713	Frozen ground construction
	Cf. GB2401+ Physical geography
714	Snow mechanics. Avalanche control
	Cf. GB2401+ Physical geography
	Cf. QC929.A8 Avalanches (Meteorology)
	Cf. QC929.S7 Snow (Meteorology)
714.5	Ice mechanics
	Earthwork

TA	ENGINEERING (GENERAL). CIVIL ENGINEERING (GENERAL)	TA
----	---	----

	Earthwork -- Continued
715	General works
721	Tables, calculations, etc. Estimates
725	Earthmoving machinery
	Cf. TA735+ Excavating machinery
	Excavations
730	General works
732	Juvenile works
	Excavating machinery
	Cf. TC187+ Dredging
	Cf. TF225+ Railroads
735	General works
737	Trade catalogs
	Rock excavation
740	General works
743	Rock drilling
	Cf. TA800+ Tunneling
	Cf. TD412 Well boring
	Cf. TN275+ Mining operations
	Rock drills
745	General works
747	Trade catalogs
748	Blasting
749	Soil stabilization
	Including soil compaction
	Cf. S593.23 Agriculture
	Cf. TE210.4+ Highway engineering
750	Hydraulic filling
755	Grouting
	Embankments, retaining walls, dams, etc.
	Cf. TC540+ Dams
760	General works
765	Earth pressure
770	Retaining walls
772	Anchorage (Structural engineering)
	Foundations
	Cf. TC197 Foundations under water
	Cf. TG320 Foundations of bridges
	Cf. TH2101 Foundations of buildings
775	General works
777	Guy anchors
	Piles and pile-driving
780	General works
783	Screw-piles
785	Sheet-piling
786	Steel piling

TA	ENGINEERING (GENERAL). CIVIL ENGINEERING (GENERAL)	TA
	Foundations	
	Piles and pile-driving -- Continued	
787	Concrete piling	
	Tunneling. Tunnels	
	Including vehicular tunnels	
	Cf. TF230+ Railroad tunnels and tunneling	
	Cf. TN285 Mine tunneling	
800	Periodicals, societies, congresses, etc.	
	History	
803	General works	
804.A-Z	By region or country, A-Z	
805	General works	
807	Popular works. Juvenile works	
810	Pocketbooks, tables, etc.	
814	Ventilation and lighting	
815	Special topics and methods	
820.A-Z	Tunnels. By place, A-Z	
	Scaffolding see TH5281	
	Practical masonry, stonecutting, bricklaying, etc. see TH5311+	
(881)	Centering of arches	
	see TH5591	
	Iron and steel work	
	Including cutting, bending, etc.	
	Cf. TA684+ Construction	
890	General works	
891	Riveting	
900	Protection of structures	
	Cf. TH9025+ Protection of buildings	
901	Waterproof construction	
	Cf. TH9031+ Protection of buildings from dampness	
	Transportation engineering	
	Class individual types of transportation with the type, e.g. TF	
	Railroads; TL Motor vehicles, airplanes, etc.	
	For economics of transportation see HE1+	
1001	Periodicals and societies	
(1004)	Yearbooks	
	see TA1001	
1005	Congresses	
	Museums. Exhibitions	
1006.A1	General works	
1006.A2-Z	By region or country, A-Z	
	Subarrange each country by Table T4b	
1007	Collected works (nonserial)	
1009	Dictionaries and encyclopedias	
1015	History	

	Transportation engineering -- Continued
1021-1127	Country divisions (Table T1a) Add country number in table to TA1000
1145	General works
1147	Popular works
1149	Juvenile works
1151	Handbooks, tables, etc.
1155	Addresses, essays, lectures
1160	Transportation engineering as a profession
1163	Study and teaching
1165	Data processing
	Route surveying see TA551; TA625
1200	Coordination of forms of transportation Urban and metropolitan transportation systems For local see TA1021+
1205	General works
1207	Personal rapid transit
	Freight
1210	General works
1215	Containerization
1225	Terminals. Transport centers
1227	Food service Cf. TF668.A1+ Dining car service
1230	Automation
1235	Electronics in transportation Signaling equipment
1245	General works
1250	Signal lights
1280	Heating, ventilation, and air conditioning equipment
1285	Access for people with disabilities. Barrier-free design
	Applied optics. Photonics
	Class applications in a special field with the field
	Cf. QC370.5+ Optical instruments and apparatus
	Cf. QH201+ Microscopes and microscopy
	Cf. TK5103.59+ Optical communications
	Cf. TK8300+ Optoelectronic devices. Photoelectronic devices
	Cf. TR1+ Photography
	Cf. TS510+ Optical instrument manufacture
1501	Periodicals. Societies. Serials
1505	Congresses
1509	Dictionaries and encyclopedias
1520	General works
1521	Juvenile works. Popular works
1522	General special
1530	Nanophotonics

## Applied optics. Photonics -- Continued

## Applied holography

- Cf. HD9707.5.H34+ Holography industry
- Cf. QC244.5 Acoustic holography (Physics)
- Cf. QC449+ Holography (Physics)
- Cf. TA417.45 Holographic testing of engineering materials

1540

General works

1542

General special

1550

Acoustic holography

1552

Microwave holography

1555

Holographic interferometry

For stereoscopic photography see TR780

1560

## Three-dimensional imaging

Class here general works on three-dimensional imaging

For three-dimensional display systems see TK7882.T47

## Infrared technology

- Cf. QC457 Infrared rays
- Cf. TK4635 Infrared heating
- Cf. TP363 Heating, drying, cooling, etc.
- Cf. TR755 Photography

1570

General works

1573

Detectors. Sensors

1600

## Ultraviolet technology

Cf. QC459+ Ultraviolet rays

## Optical data processing

- Cf. TA1540+ Applied holography
- Cf. TK7895.O6 Optical equipment (Computers)
- Cf. TK8315+ Imaging systems

1630

General works

1632

General special

1634

Computer vision

Cf. TJ211.3 Robot vision

1635

## Optical data storage

- Cf. TK6685 Video discs and video disc equipment
- Cf. TK7882.C56 Compact discs
- Cf. TK7882.D93 DVDs. DVD players

## Image processing

For three-dimensional imaging see TA1560

- Cf. TK8315+ Imaging systems
- Cf. TR267+ Digital photography
- Cf. TR897.7+ Computer animation

1637

General works

1637.5

Mathematics

	Applied optics. Photonics
	Optical data processing
	Image processing -- Continued
1638	Image compression
	Including coding standards, e.g., JPEG
	For MPEG see TK6680.8.M74
1638.4	Image segmentation
1640	Optical character recognition
	Optical pattern recognition
1650	General works
1653	Human face recognition
1655	Image stabilization
	Micro-optics
1659.5	General works
1660	Integrated optics
1660.5	Microlenses
	Lasers and laser applications
	For application in special fields, see the field, e.g. RE992.P5,
	Laser coagulation; TA1540-TA1555, Applied holography;
	TJ1191, Laser beam cutting; TK5103.6, Laser
	communication systems; TK6592.O6, Optical radar
	Cf. QC685+ Laser physics
	Cf. TK7871.4 Masers
1671	Periodicals, societies, etc.
1673	Congresses
1674	Directories
1675	General works
1677	General special
1680	Popular works
1682	Juvenile works
1683	Handbooks, tables, etc.
1684	Addresses, essays, lectures
1688	Mode-locked lasers
1690	Chemical lasers. Dye lasers
1693	Free electron lasers
1694	Gamma ray lasers
1695	Gas lasers
1695.5	High power lasers
1696	Infrared and far infrared lasers
1700	Semiconductor lasers
1705	Solid-state lasers (Ruby, etc.)
1706	Tunable lasers
1707	X-ray lasers
1715	Laser ablation



- Applied optics. Photonics -- Continued  
Applied electrooptics. Electrooptical devices. Optoelectronics  
For specific optoelectronic devices see TK8300+  
Cf. QC673+ Electrooptics
- 1750 General works  
Electroluminescent devices see TK7871.68+  
Photoelectronic devices see TK8300+
- 1770 Applied acoustooptics. Acoustooptical devices  
1773 Applied neutron optics. Neutron optical devices  
1775 Applied X-ray optics  
Applied fiber optics  
For fiber optics; optical fiber communication see  
TK5103.592.F52  
Cf. QC447.9+ Fiber optics (Physics)
- 1800 General works  
Cf. TK8306 Optical fibers
- 1815 Optical fiber detectors  
1820 Stroboscopy
- Plasma engineering. Applied plasma dynamics  
Class applications in a special field with the field
- 2001 Periodicals. Societies. Serials  
2005 Congresses  
2020 General works  
2030 Plasma devices (General)  
Cf. TK2970 Magnetohydrodynamic generators  
Cf. TL783.6 Plasma rockets
- 2040 Magnetohydrodynamics. Magnetohydrodynamic devices  
Cf. TK2970 Magnetohydrodynamic generators

	Hydraulic engineering
	For municipal water supply see TD201+
	For hydraulic machinery see TJ840.A2+
1	Periodicals, societies, etc.
5	Congresses
	Exhibitions. Museums
6.A1	General works
6.A2-Z	By region or country, A-Z
	Subarrange each country by Table T4b
7	Collected works (nonserial)
9	Dictionaries and encyclopedias
12	Directories
	History and description
15	General works
16	Ancient
17	Medieval
18	Modern
19	19th century
20	20th century
21-127	Country divisions (General hydraulic works) (Table T1a)
	Add country number in table to TC0
	Biography
139	Collective
140.A-Z	Individual, A-Z
	e.g.
140.K5	Klír, Antonín
	General works
144	Early to 1800
145	1800-
146	Juvenile works
147	Waterpower engineering. Hydraulic powerplants
	Including use of tidal power
	For power utilization of specific rivers see TC415+
	Cf. TJ840.A2+ Hydraulic machinery
	Cf. TK1081+ Hydroelectric power production
	Cf. TK1421+ Hydroelectric powerplants
151	Pocketbooks, tables, etc.
153	General special
155	Addresses, essays, lectures
	Study and teaching
157	General works
157.5	Problems, exercises, etc.
157.8	Electronic data processing. Mathematics
158	Hydraulic laboratories
159	Safety measures
	Technical hydraulics
160	General works

## Technical hydraulics -- Continued

- 163 General special
- 163.5 Environmental hydraulics
- Hydraulic models
- 164 General works
- 164.6 Movable bed models
- Hydrostatics (Water at rest)
- 165 General works
- 167 Dams, reservoirs
- 169 Gates, sluices, etc.
- Hydrodynamics (Water in motion)
- 171 General works
- 171.5 Water tunnels
- 172 Water waves
- 173 Orifices. Nozzles. Jets
  - Cf. TH9323 Fire streams
  - Cf. TP156.S6 Spraying
  - Cf. TP159.A85 Atomizers
- 174 Pipes and conduits
  - Including water hammer
- Open channels, rivers, and canals. Sluices, flumes, weirs.
- Stream gauging
- 175 General works
- 175.2 Sediment transport
  - For sediment transport of specific rivers, etc., see TC421+
- 176 Underground flow
- 177 Hydraulic measurements. Hydraulic instruments, meters, registers, etc.
  - Cf. TD499+ Domestic meters
- 179 Tables, diagrams, etc.
- 180 Hydraulic structures
  - Cf. TA654.55 Water wave loads
- 181 Earthquakes and hydraulic structures
- General preliminary operations
- 183 General works
- Diving see VM975+
- Dredging
- 187 General works
- 188 Dredges
- Submarine blasting
- 191 General works
- 192 Hell Gate
- 193 Submarine drilling
  - Cf. TN871.3 Petroleum well drilling
- Submarine building
- 195 General works

- General preliminary operations
- Submarine building -- Continued
- 197 Submarine foundations. Cribwork, etc.  
For bridge pier foundations see TG320
- 198 Cofferdams
- 199 Caissons
- 200 Deterioration of structures exposed to sea water  
Including corrosion
- 201 Control of organisms injurious to submerged structures  
Cf. QH91.8.M3 Marine biology  
Cf. TA422+ Wood
- Harbors and coast protective works. Coastal engineering
- 203 Periodicals. Societies. Serials
- 203.5 Congresses
- 203.7 Dictionaries and encyclopedias
- General works
- 204 Early to 1800
- 205 1800-
- 209 General special
- 215-327 History and country divisions (Table T1)  
Add country number in table to TC200  
Class here special harbors, inlets, channels, etc.
- 328 Marinas
- Coast protective works
- For local see TC215+
- 330 General works
- 332 Beach nourishment
- 333 Breakwaters
- 335 Seawalls
- 337 Dikes, levees, embankments  
For river levees see TC533  
For canal embankments see TC759+
- 339 Dunes (as defense works)
- 339.8 Sand bypassing
- 340 Tree planting
- Reclamation and preservation of land from the sea. Polders  
Cf. TC970+ Land drainage and reclamation of bogs, swamps, and lakes
- 343 General works
- 345.A-Z By region or country, A-Z
- Harbor engineering
- Cf. HE550+ Economic aspects
- Cf. SH337.5 Fishing port facilities
- 352 Approach channels
- 353 Sea locks
- 355 Docks
- 357 Piers, quays, and wharves

	Harbor engineering -- Continued
361	Drydocks
363	Floating harbors
	Including floating docks, piers, etc.
365	Other special docks
370	Mechanical equipment of docks for cargo handling, etc.
	Including cranes
	For cargo handling, etc. see VK235
373	General special
	Including mooring berths, fenders
	Lighthouses (Construction and equipment)
375	General works
377	Lights, lamps, etc.
379	Lenses
380	Buoys
	River, lake, and water-supply engineering (General)
	Class here development of the water resources of a watershed
	Cf. TD201+ Municipal water supply
401	Periodicals, societies, congresses, etc.
403	Dictionaries and encyclopedias
	General works
404	Early to 1800
405	1800-
406	Popular works
407	Pocketbooks, tables, etc.
409	General special
	Including estimation of value, simulation methods
411	Addresses, essays, lectures
413	Watershed management
415-527	History and country divisions (Table T1 modified)
	Add country number in table to TC400
	Class here special rivers and lakes
	Cf. GB1201+ Physical geography of rivers
	Cf. HE380.8+ Economic aspects of waterways
	Special countries
	America
	North America
	United States
423	General works
423.3	Great Lakes
	Including diversion of water from Lake Michigan
	Mississippi River
	The detailed arrangement for Mississippi River
	should not be used for other rivers
425.M6	General works
425.M61	Conventions
	Arrange by date

## River, lake, and water-supply engineering (General)

## History and country divisions

## Special countries

## America

## North America

## United States

## Mississippi River -- Continued

425.M62

## Levees

425.M63A-.M63W

## Levees of special states, A-W

425.M65

## Jetties

425.M66A-.M66W

## Special states, A-W

425.M67A-.M67Z

## Special cities, A-Z

e.g.

425.M67M5

## Memphis

## Rivers of Canada

426

## General works

426.5.A-Z

## Provinces, A-Z

427.A-Z

## Special rivers and lakes, A-Z

e.g.

427.S3

## St. Lawrence River

## Europe

## Rivers of Great Britain

457

## General works

464.A-Z

## Special rivers and lakes, A-Z

e.g.

464.T4

## Thames

## Rivers of Austria

465

## General works

465.2.A-Z

## Special rivers and lakes, A-Z

e.g.

465.2.D2

## Danube

## Rivers of France

471

## General works

472.A-Z

## Special rivers and lakes, A-Z

e.g.

472.S4

## Seine

## Asia

## South Asia

## Rivers of India

503

## General works

503.5.A-Z

## Provinces, etc., A-Z

504.A-Z

## Special rivers and lakes, A-Z

e.g.

504.I4

## Indus River

## Rivers of Japan

505

## General works

505.5.A-Z

## Prefectures, etc., A-Z

- River, lake, and water-supply engineering (General)
  - History and country divisions
    - Special countries
      - Asia
        - Rivers of Japan -- Continued
- 506.A-Z Special rivers and lakes, A-Z
- 529 Stream channelization. Channel improvement
- River protective works. Regulation. Flood control
  - For local see TC415+
  - Cf. HD1675+ Economic aspects
- 530 General works
- 531 Flood control channels
- 533 Levees
- 535 Jetties
- 537 Tree planting. Streambank planting
- Dams. Barrages
- 540 General works
- Damsite selection
- 542 Dam geology
  - For the geology of damsites of special areas see TC556+
- 542.5 Earthquakes and dams
- Dam types
- 543 Earthen dams
- 545 Wooden dams
- 547 Masonry dams. Concrete dams
- 549 Other (not A-Z)
  - Including steel, movable, beartrap, needle
- 550 Dam safety
  - For local see TC556+
- 550.2 Dam failures
  - For local see TC556+
- 553 Sluices and gates
- 554 Trashracks
- 555 Wasteways, spillways, weirs, etc.
- Special countries
  - United States
    - General works
- 556 By region, A-Z
- 556.5.A-Z By state, A-W
- 557.A-.W
  - Under each:*
    - .x *General works*
    - .x2A-.x2Z *Special dams, A-Z*
    - e.g.
  - California
- 557.C2 General works

- Dams. Barrages  
 Special countries  
 United States  
 By state, A-W  
 California -- Continued  
 557.C3A-.C3Z Special dams, A-Z  
 e.g.  
 557.C3O76 Oroville Dam  
 557.3.A-Z By river, A-Z  
 Class here only rivers located in two or more states  
 e.g.  
 557.3.P6 Potomac River  
 557.5.A-Z Other special dams, A-Z  
 Class here only dams located in two states  
 e.g.  
 557.5.H6 Hoover Dam  
 558.A-Z Other regions or countries, A-Z  
*Under each (unless otherwise specified):*  
 .x General works  
 .x2A-.x2Z Special dams, A-Z  
 e.g.  
 China  
 558.C5 General works  
 558.C52A-.C52Z Special dams, A-Z  
 e.g.  
 558.C52S26 San Xia Dam. Three Gorges Dam  
 Three Gorges Dam see TC558.C52S26  
 Egypt  
 558.E4 General works  
 558.E5A-.E5Z Special dams, A-Z  
 e.g.  
 558.E5A8 Aswan High Dam  
 Canals and inland navigation. Waterways  
 Cf. HE380.8+ Economic aspects  
 Cf. TC930 Irrigation canals  
 601 Periodicals, societies, etc.  
 605 Congresses  
 607 Collected works (nonserial)  
 615-727 History and country divisions (Table T1 modified)  
 Add country number in table to TC600  
 Class here special canals and locks  
 Special countries  
 America  
 North America  
 United States  
 623 Canals (General)  
 623.1 Great Lakes to Atlantic



## Canals and inland navigation. Waterways

## History and country divisions

## Special countries

## America

## North America

## United States -- Continued

623.2

Great Lakes to Gulf of Mexico

623.3

Mississippi to Atlantic

Intracoastal waterways

623.4

Atlantic

623.5

Gulf of Mexico

623.7

Miscellaneous general projects

624.A-.W

Special states, A-W

625.A-Z

Special canals and locks, A-Z

*Under each:**.xA1-.xA3**Serial documents**.xA5**Special documents, by date**.xA6-.xZ**General works*

e.g.

625.E6

Erie Canal

625.M6

Middlesex Canal

Isthmian canals see TC773+

## Europe

655

General works

656.A-Z

Special projects, A-Z

e.g.

656.R5

Rhine-Main-Danube Waterway

Great Britain. England

664.A-Z

Cities (or other special), A-Z

e.g.

664.M2

Manchester Ship Canal

Balkan Peninsula

695.B2

General works

695.B23A-.B23Z

Special projects, A-Z

e.g.

695.B23D3

Danube-Aegean project

## Africa

## Egypt

718.A-Z

Local or special, A-Z

Suez Canal see TC791

## General works

744

Early to 1800

745

1800-

751

Pocketbooks, tables, etc.

753

General special

755

Addresses, essays, lectures

## Special aspects

## Canals and inland navigation. Waterways

## Special aspects -- Continued

- 759 Canal embankments
- 761 Canal locks
  - For special locks see TC615+
- 762 Canal gates
  - Including operating devices
- 763 Lifts and inclines
- 764 Canal aqueducts
- 765 Canalboats
- 766 Resistance of water
- Motive power. Towing
- 767 General works
- 769 Mechanical and electrical
- 770 Ship canals (General)
  - For economic studies, traffic statistics, etc. see HE380.8+
- Ship and boat railways
- 771 General works
- 772 Special (except Tehuantepec)
  - Tehuantepec Ship Railway see TC786
- Isthmian canal projects (General)
- 773 General works
- Panama Canal
- 774 General works
  - For economic aspects see HE537+
- 777 Operation of the canal
  - Cf. HE538.A1+ Administration of the canal
- 777.5 Miscellaneous uncataloged matter
- Compagnie universelle du canal interocéanique de Panama
- 778 General works
- 778.B9 Bulletin du canal interocéanique
- (778.1) Annual report of directors
  - see HE537.33
- 778.2 Annual report of chief engineer
- 778.3 Other serial reports
- 778.5 Special reports. By date
- (778.7) Charter, bylaws
  - see HE537.37
- 778.8 Other printed matter
- Compagnie nouvelle du canal de Panama
- 779 General works
- 779.B9 Bulletin
- (779.1) Annual report of directors
  - see HE537.43+
- 779.2 Annual report of chief engineer

## Canals and inland navigation. Waterways

## Isthmian canal projects (General)

## Panama Canal

## Compagnie nouvelle du canal de Panama -- Continued

779.3

Other serial reports

779.5

Special reports. By date

(779.7)

Charter, bylaws

see HE537.47

779.8

Other printed matter

780

The "Panama affair" and history of the companies

## Panama Exposition

## Preliminary

## United States

781.A1-.A3

Documents

781.A4A-.A4W

States, A-W

781.A5A-.A5Z

Cities, A-Z

781.A6A-.A6Z

Other regions or countries, A-Z

781.A7

Nonofficial. By author

## The Exposition

781.A8

Official guides

Histories and descriptions

781.B1

General works

781.B2

General special

781.C1

Collections of pictures, views, etc.

## Official publications

Acts of incorporation, rules, organization, etc.

781.D1

General works

781.D13

Translations of acts

Rules, regulations, etc.

781.D15

General works

781.D17

Translations of rules, regulations, etc.

781.D2

General reports, proceedings, etc., of governing board

781.D25

Reports of national (government) commission

781.D3

General reports of special boards, commissions, etc.

781.D4

Congressional hearings and reports of national government on appropriations, etc. By date

781.D5

Special reports. By date

General catalogs

781.D6

Official. By date

781.D7

Nonofficial

Subarranged by author

781.D8

Reports and awards of jurors

781.D9

Miscellaneous printed matter

781.E1

Official comprehensive reports on the exhibits by editorial commissions, etc. By date

## Canals and inland navigation. Waterways

## Isthmian canal projects (General)

## Panama Canal

## Panama Exposition

## The Exposition -- Continued

781.E1A-.E1Z

General official reports of other countries on exhibitions

For their own exhibits see TC781.G1

Exhibits of the country in which the exhibition is held

781.F1

Collective

Class here general only; special with subject

781.F2

Government exhibit

781.F3

State exhibits, etc.

781.G1

Exhibits of other countries

Cf. TC781.E1A+ General official reports on exhibitions

781.H1

Parts of the exposition

Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here

781.K1

Exhibits arranged by names of exhibitors

Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here

781.L1

Miscellaneous

Other than .A1-.K1

781.N1

Congresses. General reports

## Other Isthmian canal projects

784

Nicaragua Canal

785

Tehuantepec Canal

786

Tehuantepec Ship Railway

788

Darien, Atrato and others

791

## Suez Canal

## Irrigation engineering. Reclamation of wasteland

Cf. HD1690+ Water rights

Cf. HD1710.2+ Economic situation, history, etc.

Cf. S604.8+ Agriculture

Cf. SB112 Irrigation farming

Cf. TC343+ Reclamation of land from the sea

801

Periodicals, societies, etc.

803

Congresses

804

Dictionaries and encyclopedias

805

General works

	Irrigation engineering. Reclamation of wasteland -- Continued
809	General special
812	Management of irrigation projects
815-927	History and country divisions (Table T1 modified)
	Add country number in table to TC800
	Special countries
	Asia
	South Asia
	India
903	General works
904.4.A-Z	Special projects, A-Z
904.4.G2	Ganges Canal
(927)	Irrigation by pumping
	see TC929
	Biography
928	Collective
928.2.A-Z	Individual, A-Z
929	Irrigation pumps
930	Irrigation canals
933	Irrigation flumes and conduits
937	Gates and other incidental structures
	Flooding of deserts and wastelands
950	General works
	Special
953	United States
955	Sahara
957.A-Z	Other, A-Z
	Drainage
	Cf. HD1681+ Economics, public policy, etc.
	Cf. S621 Farmers' manuals
970	General works
973	Relief wells
974	Wellpoint system
974.2	Vertical drains
975	Reclamation of bogs, swamps, lakes, etc.
	Cf. TC343+ Reclamation of land from the sea
	Country divisions
	United States
976	General works
977.A-Z	Regions or states, A-Z
978.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a

TC

OCEAN ENGINEERING

TC

- Ocean engineering
  - Cf. GC1000+ Marine resources
  - Cf. TN291.5 Ocean mining
- 1501 Periodicals, societies, etc.
- 1505 Congresses
- 1550 Directories
- 1645 General works
- 1650 General special
- 1655 Study and teaching
- 1657 Electricity in ocean engineering
- 1660 Patents
- 1662 Remotely operated vehicles
- Offshore structures
- 1665 General works
- 1670 Corrosion
- 1680 Models
- Compliant platforms
- 1700 General works
- 1702 Semi-submersible offshore structures
- 1703 Tension leg platforms
- 1800 Underwater pipelines

## Environmental technology. Sanitary engineering

Including the promotion and conservation of the public health,  
comfort, and convenience by the control of the environment

Cf. GE170+ Environmental policy

Cf. GF51 Human beings and the environment

Cf. RA565+ Environmental health

Cf. TH6014+ Environmental engineering in buildings

## Periodicals and societies. By language of publication

1 English

2 French

3 German

4 Other languages (not A-Z)

5 Congresses

## Exhibitions. Museums

6.A1 General works

6.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

12 Directories

## History

15 General works

16 Ancient

17 Medieval

18 Modern to 1800

19 Nineteenth century

20 Twentieth century

## Country and city subdivisions

Including municipal reports of public sanitary works

## America

21 General works

## North America

22 General works

## United States

23 General works

23.1 Eastern states. Atlantic coast

23.15 New England

23.2 Appalachian region

23.3 Great Lakes region

23.4 Midwest. Mississippi Valley

23.5 South. Gulf states

23.6 West

23.7 Northwest

23.8 Pacific coast

23.9 Southwest

## Country and city subdivisions

## America

## North America

## United States -- Continued

24.A-W

States, A-W

e.g.

24.A4

Alaska

24.H3

Hawaii

25.A-Z

Cities or other special, A-Z

## Canada

26.A1

General works

26.A6-Z

Provinces, A-Z

27.A-Z

Local (Cities, etc.), A-Z

27.5

## Latin America

## Mexico

28.A1

General works

28.A6-Z

States, provinces, etc., A-Z

29.A-Z

Local (Cities, etc.), A-Z

## Central America

30

General works

31.A-Z

Special countries, A-Z

## South America

34

General works

## Argentina

36.A1

General works

36.A6-Z

States, provinces, etc., A-Z

37.A-Z

Local (Cities, etc.), A-Z

## Bolivia

38.A1

General works

38.A6-Z

States, provinces, etc., A-Z

39.A-Z

Local (Cities, etc.), A-Z

## Brazil

41.A1

General works

41.A6-Z

States, provinces, etc., A-Z

42.A-Z

Local (Cities, etc.), A-Z

## Chile

43.A1

General works

43.A6-Z

States, provinces, etc., A-Z

44.A-Z

Local (Cities, etc.), A-Z

## Colombia

45.A1

General works

45.A6-Z

States, provinces, etc., A-Z

46.A-Z

Local (Cities, etc.), A-Z

47

## Ecuador

48

## Guyana

49

## Suriname



## Country and city subdivisions

## America

## South America -- Continued

- 50 French Guiana
- 51 Paraguay
- 52 Peru
- 53 Uruguay
- 54 Venezuela

## Europe

- 55 General works
- Great Britain. England
- 57 General works
- 58.A-Z English counties or regions, A-Z
- Ireland
- 59 General works
- 59.2 Irish Free State. Ireland (Eire)
- 59.3 Northern Ireland
- 60.A-Z Special counties, A-Z
- Scotland
- 61 General works
- 62.A-Z Special counties, A-Z
- 63 Wales
- 64.A-Z Cities or other special, A-Z
- Austria
- 65.A1 General works
- 65.A6-Z States, provinces, etc., A-Z
- 65.2.A-Z Local (Cities, etc.), A-Z
- Czechoslovakia
- 65.3.A1 General works
- 65.3.A6-Z States, provinces, etc., A-Z
- 65.4.A-Z Local (Cities, etc.), A-Z
- Hungary
- 65.5 General works
- 65.9.A-Z Special counties, A-Z
- 66.A-Z Cities or other special, A-Z
- Belgium
- 67.A1 General works
- 67.A6-Z States, provinces, etc., A-Z
- 68.A-Z Local (Cities, etc.), A-Z
- Denmark
- 69.A1 General works
- 69.A6-Z States, provinces, etc., A-Z
- 70.A-Z Local (Cities, etc.), A-Z
- France
- 71.A1 General works
- 71.A6-Z States, provinces, etc., A-Z

## Country and city subdivisions

## Europe

## France -- Continued

72.A-Z

Local (Cities, etc.), A-Z

72.5

Colonies (Collectively)

## Germany

73

General works

73.1

East Germany. Eastern Germany

73.2

Baden-Württemberg

73.3

Bavaria

73.4

Hesse

73.5

Prussia

73.6

Saxony

73.7

North Rhine-Westphalia

73.9.A-Z

Other states, A-Z

74.A-Z

Cities or other special, A-Z

74.5

Colonies (Collectively)

## Greece

75.A1

General works

75.A6-Z

States, provinces, etc., A-Z

76.A-Z

Local (Cities, etc.), A-Z

## Netherlands

77.A1

General works

77.A6-Z

States, provinces, etc., A-Z

78.A-Z

Local (Cities, etc.), A-Z

## Italy

79.A1

General works

79.A6-Z

States, provinces, etc., A-Z

80.A-Z

Local (Cities, etc.), A-Z

80.5

## Malta

## Norway

81.A1

General works

81.A6-Z

States, provinces, etc., A-Z

82.A-Z

Local (Cities, etc.), A-Z

## Portugal, Azores, etc.

83.A1

General works

83.A6-Z

States, provinces, etc., A-Z

84.A-Z

Local (Cities, etc.), A-Z

84.5

Colonies (Collectively)

## Russia in Europe

85.A1

General works

85.A6-Z

States, provinces, etc., A-Z

86.A-Z

Local (Cities, etc.), A-Z

## Spain

87.A1

General works

87.A6-Z

States, provinces, etc., A-Z

## Country and city subdivisions

## Europe

Spain -- Continued

88.A-Z

Local (Cities, etc.), A-Z

88.5

Scandinavia

Sweden

89.A1

General works

89.A6-Z

States, provinces, etc., A-Z

90.A-Z

Local (Cities, etc.), A-Z

Switzerland

91.A1

General works

91.A6-Z

States, provinces, etc., A-Z

92.A-Z

Local (Cities, etc.), A-Z

95.A-Z

Other regions and countries, A-Z

95.A2

Balkan Peninsula

95.A38

Albania

95.A44

Alps

95.A48

Andorra

95.B3

Baltic Sea

95.B43

Belarus

95.B45

Benelux countries

95.B9

Bulgaria

95.C37

Carpathian Mountains

95.D35

Danube River

95.F5

Finland

95.I43

Iceland

95.L285

Lapland

95.L37

Latvia

95.L78

Lithuania

95.L9

Luxemburg

95.M4

Mediterranean Region

95.N67

North Sea

95.P7

Poland

95.P75

Pomerania (Poland and Germany)

95.R48

Rhine River

95.R6

Romania

95.S55

Slovenia

95.T48

Thrace

95.U95

Ukraine

95.Y8

Yugoslavia

## Asia

99

General works

China

For Hong Kong see TD113.H85

101.A1

General works

101.A6-Z

States, provinces, etc., A-Z

## Country and city subdivisions

## Asia

## China -- Continued

102.A-Z Local (Cities, etc.), A-Z

## Taiwan

102.5.A1 General works

102.5.A6-Z States, provinces, etc., A-Z

102.6.A-Z Local (Cities, etc.), A-Z

## South Asia

102.9 General works

## India

103.A1 General works

103.A6-Z States, provinces, etc., A-Z

104.A-Z Local (Cities, etc.), A-Z

## Pakistan

104.5.A1 General works

104.5.A6-Z States, provinces, etc., A-Z

104.6.A-Z Local (Cities, etc.), A-Z

## Bangladesh

104.65.A1 General works

104.65.A6-Z States, provinces, etc., A-Z

104.66.A-Z Local (Cities, etc.), A-Z

## Sri Lanka. Ceylon

104.7.A1 General works

104.7.A6-Z States, provinces, etc., A-Z

104.8.A-Z Local (Cities, etc.), A-Z

## Japan

105.A1 General works

105.A6-Z States, provinces, etc., A-Z

106.A-Z Local (Cities, etc.), A-Z

## Korea

## Including South Korea

106.5.A1 General works

106.5.A6-Z States, provinces, etc., A-Z

106.6.A-Z Local (Cities, etc.), A-Z

## North Korea

106.7.A1 General works

106.7.A6-Z States, provinces, etc., A-Z

106.8.A-Z Local (Cities, etc.), A-Z

## Iran. Persia

107.A1 General works

107.A6-Z States, provinces, etc., A-Z

108.A-Z Local (Cities, etc.), A-Z

## Russia in Asia. Siberia

109.A1 General works

109.A6-Z States, provinces, etc., A-Z

## Country and city subdivisions

## Asia

Russia in Asia. Siberia -- Continued

110.A-Z

Local (Cities, etc.), A-Z

Turkey. Asia Minor

111.A1

General works

111.A6-Z

States, provinces, etc., A-Z

112.A-Z

Local (Cities, etc.), A-Z

113.A-Z

Other divisions of Asia, A-Z

113.A3

Afghanistan

113.B54

Borneo

113.B7

Brunei

113.B8

Burma. Myanmar

113.C16

Cambodia

113.C9

Cyprus

113.G39

Gaza Strip

113.H85

Hong Kong

113.I55

Indonesia

113.I7

Iraq

113.I75

Israel

113.J6

Jordan

113.K85

Kuwait

113.L28

Laos

113.L4

Lebanon

113.M2

Macau

113.M318

Malaya

113.M32

Malaysia

113.M45

Mekong River Valley

Myanmar see TD113.B8

113.N4

Nepal

113.P6

Philippines

113.Q36

Qatar

113.S33

Saudi Arabia

113.S53

Singapore

113.S6

Southeast Asia

113.S94

Syria

113.T48

Thailand

113.U54

United Arab Emirates

113.V5

Vietnam

113.W48

West Bank

113.Y45

Yemen (People's Democratic Republic)

113.5

Middle East

114

Arab countries

114.5

Islamic countries

Africa

115

General works

## Country and city subdivisions

## Africa -- Continued

## Egypt

117.A1	General works
117.A6-Z	States, provinces, etc., A-Z
118.A-Z	Local (Cities, etc.), A-Z
119.A-Z	Other divisions of Africa, A-Z
119.A4	Algeria
119.A5	Angola
119.B57	Botswana
119.B85	Burundi
119.C17	Cameroon
119.C42	Central Africa
119.C43	Central Africa Republic
119.C75	Congo (Brazzaville)
	Congo (Democratic Republic) see TD119.Z3
	Côte d'Ivoire see TD119.I9
119.D3	Dahomey
119.D55	Djibouti
119.E18	East Africa
119.E19	Eastern Africa
119.E8	Ethiopia
119.F82	French-speaking Equatorial Africa
119.F83	French-speaking West Africa
119.G23	Gabon
119.G45	Ghana
119.G92	Guinea
119.G94	Guinea-Bissau
119.I9	Ivory Coast. Côte d'Ivoire
119.K4	Kenya
119.L45	Lesotho
119.L49	Liberia
119.L74	Libya
119.M28	Madagascar
119.M3	Malawi
119.M34	Mali
119.M39	Mauritania
119.M6	Morocco
119.M85	Mozambique
	Namibia see TD119.S68
119.N53	Niger
119.N54	Nigeria
119.N6	Nile River Valley
119.R45	Rhodesia, Southern. Zimbabwe
119.R9	Rwanda
119.S18	Sahel

## Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

119.S38 Senegal  
 119.S5 Sierra Leone  
 119.S59 Somalia  
 119.S6 South Africa  
 119.S64 Southern Africa  
 119.S68 Southwest Africa. Namibia  
 119.S73 Sub-Saharan Africa  
 119.S74 Sudan  
 119.S87 Swaziland  
 119.T35 Tanzania  
 119.T64 Togo  
 119.T8 Tunisia  
 119.U4 Uganda  
 119.U66 Upper Volta  
 119.W48 West Africa  
 119.Z3 Zaire. Congo (Democratic Republic)  
 119.Z34 Zambia  
 Zimbabwe see TD119.R45

## Indian Ocean islands

120 General works  
 120.5.A-Z Special islands, A-Z  
 120.5.M38 Mauritius  
 120.5.R48 Réunion

## Australasia

120.7 General works  
 Australia  
 121.A1 General works  
 121.A6-Z States, provinces, etc., A-Z  
 122.A-Z Local (Cities, etc.), A-Z  
 New Zealand  
 122.5.A1 General works  
 122.5.A6-Z States, provinces, etc., A-Z  
 122.6.A-Z Local (Cities, etc.), A-Z  
 122.7 Papua New Guinea

## Pacific islands

123 General works  
 124.A-Z By island, A-Z

## Arctic regions

125 General works  
 125.5 Greenland

## Antarctica

126 Tropics

127 Developing countries

- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early through 1850
  - 145 1851-
  - 146 Elementary textbooks
  - 148 Popular works
  - 151 Pocketbooks, tables, etc.
  - 153 General special
  - 155 Addresses, essays, lectures
  - 156 Environmental and sanitary engineering as a profession
- Study and teaching
  - 157 General works
  - 157.15 Problems, exercises, etc.
    - By region or country
      - United States
        - 157.2 General works
      - 157.3.A-Z By region or state, A-Z
        - Subarrange each country by Table T4a
      - 157.4.A-Z Other regions or countries, A-Z
        - Subarrange each country by Table T4a
- 157.5 Research
- 158 Remote sensing
- Municipal engineering
  - Cf. GV421+ Playgrounds
  - Cf. HD7285+ Housing
  - Cf. SB481.A1+ Parks
  - Cf. TE1+ Streets and roads
  - Cf. TH350 Engineering of the subdivision
- 159.A1 Periodicals, societies, congresses, etc.
- 159.A5-Z General works
- 159.3 General special
  - By region or country see TD21+
- 159.5 Department organization and management
- Planning and laying out cities
  - Cf. HT165.5+ City planning (Urban sociology)
  - Cf. HT170+ Urban renewal
  - Cf. NA9000+ City planning (Architecture)
- 160 General works
- 163 General special
- 167 City surveying
- 168 Underground utility lines
- 168.5 Climatic factors
- Environmental protection
  - Cf. GE170+ Environmental policy



	Environmental protection -- Continued
169	Periodicals, societies, congresses, etc.
169.3	Dictionaries and encyclopedias
169.5	Information services
169.6	Directories
170	General works
170.15	Juvenile works
170.2	General special
170.3	Addresses, essays, lectures
	Study and teaching
170.6	General works
	By region or country
170.7	United States
170.8.A-Z	Other regions or countries, A-Z
	Research
170.9	General works
	By region or country
170.93	United States
170.94.A-Z	Other regions or countries, A-Z
	Special regions or countries
	United States
171	General works
171.3.A-Z	By region or state, A-Z
	Subarrange each state by Table T4a
171.5.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a
171.7	Citizen participation
171.75	Climate change mitigation
171.8	Decision making
171.9	Environmental geotechnology
	Environmental pollution
	Including its control
	Class special types of pollution with the type, e.g. GC1080+
	Marine pollution; TD196.R3 Radioactive pollution; TD419+
	Water pollution; TD881+ Air pollution; TD891+ Noise
	pollution, etc.
	Cf. SB744.5+ Crops and pollution
172	Periodicals, societies, etc.
172.5	Congresses
173	Dictionaries and encyclopedias
173.5	Directories
174	General works
175	Popular works
176	Juvenile works
176.4	Pocketbooks, tables, etc.
176.7	Addresses, essays, lectures

	Environmental pollution -- Continued
177	General special
177.8	Vocational guidance for pollution control personnel
	Study and teaching
178	General works
	Special countries
178.3	United States
178.4.A-Z	Other countries, A-Z
	Research
178.5	General works
	Special countries
178.6	United States
178.7.A-Z	Other countries, A-Z
	Environmental laboratories
178.8.A1	General works
178.8.A2-Z	By region or country, A-Z
	<i>Under each country:</i>
	.x <i>General works</i>
	.x2A-.x2Z <i>By state, province, etc., A-Z</i>
	.x3A-.x3Z <i>Special. By city, A-Z</i>
179	History
	Special countries
	North America
179.5	General works
	United States
180	General works
181.A-Z	By region or state, A-Z
	Subarrange each country by Table T4a
	Canada
182	General works
182.4.A-Z	By region or province, A-Z
	Subarrange each province by Table T4a
	Mexico
182.6	General works
182.7.A-Z	By region or state, A-Z
	Subarrange each state by Table T4a
	Central America
183	General works
183.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	West Indies
184	General works
184.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	South America
185	General works

TD

# ENVIRONMENTAL TECHNOLOGY. SANITARY ENGINEERING

TD

	Environmental pollution
	Special countries
	South America -- Continued
185.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Europe
186	General works
186.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Asia
187	General works
187.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Africa
188	General works
188.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	Oceania
189	General works
189.5.A-Z	By country, A-Z
	Subarrange each country by Table T4a
	e.g.
189.5.A8	Australia (Table T4a)
189.5.N4	New Zealand (Table T4a)
	Polar regions
190	General works
190.5	Arctic regions
190.7	Antarctica
191	Developing countries
	Pollution control methods
191.5	General works
192	Equipment and supplies
	Special methods
	Chemical treatment
192.2	General works
192.3	Catalysis
192.4	Lime treatment
192.45	Oxidation
	Biological treatment. Bioremediation
192.5	General works
192.6	Fertilization
192.7	Seeding
192.72	Fungal remediation
192.75	Phytoremediation
192.8	In situ remediation

## Environmental pollution -- Continued

## Measurement of pollution. Sampling and analysis.

## Environmental chemistry

For measurement or analysis of specific pollutants see

TD196.A+

193

## General works

(193.2)

## Environmental indicators

see GE140+

193.3

## Cross-media pollution

193.4

## Environmental forensics

193.5

## Risk assessment

Cf. GE145+ Environmental risk assessment

## Environmental effects of industries and plants

Cf. HD30.255 Environmental aspects of industrial  
management

Cf. TD419+ Water pollution

Cf. TD881+ Air pollution

Cf. TD891+ Noise pollution

Cf. TD896+ Industry and factory wastes

194

## General works

194.4

## General special

## Environmental impact statements

194.5

## General works

## By region or country

## United States

194.55

## General works

194.56.A-Z

## By region or state, A-Z

Subarrange each state by Table T4a

194.58.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

## Environmental impact analysis

194.6

## General works

194.64

## Study and teaching

## By region or country

## United States

194.65

## General works

194.66.A-Z

## By region or state, A-Z

Subarrange each state by Table T4a

194.68.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

## Environmental auditing

194.7

## General works

## Environmental reporting

194.8

## General works

194.83.A-Z

## By region or country, A-Z

195.A-Z

## Special industries, facilities, activities, etc., A-Z

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

- 195.A27      Aeronautics
  - Including air transportation
- 195.A33      Aggregate industry
- 195.A34      Agriculture
  - Class here works on agricultural pollution, i.e. agriculture as a source of pollution
  - Cf. S589.7 Agricultural ecology
  - Cf. S589.75+ Agriculture and the environment
  - Cf. TD930+ Agricultural wastes
- 195.A36      Airports
- 195.A37      Aluminum industry. Bauxite industry
- 195.A44      Ammonia industry
- Amphitheatres see TD195.S68
- Architectural engineering see TD195.C595
- 195.A75      Armed Forces
- Atomic power plants see TD195.E4
- 195.B34      Ballistic missile defenses
- Baseball fields see TD195.S68
- Bauxite industry see TD195.A37
- 195.B56      Biomass energy
- 195.B58      Biotechnology
- 195.B63      Boats and boating
- 195.B74      Bridges
- 195.B84      Building materials industry
- 195.B87      Business parks
- 195.C42      Ceramic industries
- 195.C45      Chemical plants
- 195.C47      Church facilities
- 195.C54      Civil engineering
- 195.C58      Coal mines and mining
- 195.C59      Cobalt mines and mining
- 195.C595      Construction industry
- 195.C6      Cooling towers
- Correctional institutions see TD195.P74
- 195.D35      Dams
- 195.D5      Diamond mines and mining
- 195.D53      Diaper industry
- 195.D72      Dredging
- 195.D78      Drug factories
- 195.E25      Economic development
- 195.E37      Electric lines. Telecommunication lines
- 195.E4      Electric power plants
  - Cf. SH173 Effect on fish culture
- 195.E43      Electrochemistry, Industrial

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

195.E45	Electroplating
195.E49	Energy development
195.E5	Energy facilities
195.F46	Fertilizer industry
195.F52	Fishery processing industries
195.F57	Food industry
	Football stadiums see TD195.S68
	Forestry see SD387.E58
195.F6	Foundries
195.G3	Gas industry
195.G46	Geothermal power plants
195.G57	Glass manufacture
195.G64	Gold industry
195.G66	Golf courses
195.H39	Hazardous waste management industry
195.H54	High technology industries
	Horse racetracks see TD195.R26
195.H66	Hospitals
195.H67	Hotels. Office buildings
195.H93	Hydraulic engineering
195.I52	Incineration
195.I54	Industrial districts
195.I76	Ironworks
	Jails see TD195.P74
195.L4	Leather industry
195.L52	Lighting
	Including the environmental effects of light pollution
195.L53	Lignite industry
195.L55	Limestone industry
195.M33	Magnesium industry and trade
195.M37	Marinas
195.M39	Marine terminals
195.M42	Metalworking industries
195.M45	Military aeronautics
195.M48	Mine subsidences
195.M5	Mineral industries
195.M67	Motorsports
195.N38	Navy-yards and naval stations
195.N47	New towns
195.N65	Nonferrous metal industries
195.N83	Nuclear facilities (General)
	Cf. TD195.E4 Electric power plants
	Nuclear power plants see TD195.E4
195.N85	Nuclear weapons plants

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

195.O25	Ocean mining
	Office buildings see TD195.H67
195.O4	Oil-shale industry
195.P26	Package goods industry
195.P35	Paint industry
195.P36	Palm oil industry
195.P37	Paper and pulp mills
195.P38	Peat mining
195.P39	Petrochemicals industry
195.P4	Petroleum industry
	Cf. TD427.P4 Water pollution
	Cf. TD888.P4 Air pollution
195.P46	Phosphate mines and mining
195.P47	Phosphatic fertilizer industry
195.P5	Pipelines
195.P516	Planned unit developments
195.P52	Plastics industry
	Power resource development see TD195.E49
195.P7	Printing industry
195.P74	Prisons. Jails. Correctional institutions
195.P76	Proving grounds
195.P82	Public housing
195.P83	Public utilities
195.Q3	Quarries and quarrying
195.R26	Racetracks (Horse racing)
195.R33	Railroads
195.R34	Rainmaking
195.R4	Reactor fuel reprocessing plants
195.R45	Research natural areas
195.R47	Reservoirs
195.R49	Resource recovery facilities
195.R493	Retail trade
	Including retail stores
195.R495	Retirement communities
195.R53	Rifle ranges
195.R63	Roads
195.S26	Salt mines and mining
195.S3	Sand and gravel industry
195.S36	Scrap metal industry
195.S47	Sewage disposal plants
195.S52	Shopping centers
195.S54	Silicon industry
195.S57	Ski resorts
	Soccer fields see TD195.S68

## Environmental effects of industries and plants

## Special industries, facilities, activities, etc., A-Z -- Continued

- 195.S64 Solar energy
- 195.S65 Spillways
- 195.S68 Stadiums. Amphitheaters
  - Including baseball fields, football stadiums, and soccer fields
- 195.S7 Steelworks
- Stores, Retail see TD195.R493
- 195.S75 Strip mining
  - Cf. QH545.S84 Ecology
- 195.S9 Subways
- 195.S93 Sugar cane industry
- 195.S95 Synthetic fuels industry
- 195.T35 Tanneries
- Telecommunication lines see TD195.E37
- 195.T48 Textile industry
- 195.T56 Tin mines and mining
- 195.T68 Tourist trade
- 195.T7 Transportation
  - Cf. TD195.R63 Roads
  - Cf. TD195.S9 Subways
- 195.U7 Uranium industry
- 195.W29 War
- 195.W295 Waste disposal sites
- 195.W3 Water-supply engineering
- 195.W54 Wind power industry
- 195.W6 Wood-using industries
- Special environmental pollutants
- Acid precipitation. Acid rain. Acid deposition
  - Cf. QC926.5+ Meteorological aspects
- 195.4 Periodicals, societies, congresses, etc.
- 195.42 General works
- 195.44 Juvenile works
- 195.46 Handbooks, manuals, etc.
- By region or country
  - United States
    - General works
  - By region or state, A-Z
    - Subarrange each state by Table T4a
  - Other regions or countries, A-Z
    - Subarrange each country by Table T4a
  - Special topics, A-Z
    - For local see TD195.5+
- 195.5 Economic aspects
- 195.56.E35 Economic aspects
- 196.A-Z Other environmental pollutants, A-Z
- 196.A2 Acetates



## Special environmental pollutants

## Other environmental pollutants, A-Z -- Continued

196.A22	Acetic acid
196.A34	Agricultural chemicals
196.A75	Aromatic compounds
196.A77	Arsenic
196.A78	Asbestos
196.B38	Benzene
196.B4	Benzpyrene
196.B85	Building materials
196.C28	Cadmium
	Calcium oxide see TD196.L55
196.C33	Carbolic acid
196.C45	Chemicals
196.C5	Chlorine compounds
196.C53	Chromium
196.C63	Coal
	Contaminated processed metals see TD196.M4
196.C93	Cyanides
196.C94	Cyclododecane
196.C95	Cyclohexane
196.D48	Detergents
	Cf. RA1242.D4 Toxicology of detergents
	Cf. TD427.D4 Detergent pollution of water
196.D56	Dioxins
196.D78	Drugs
196.E86	Ethylene oxide
196.F47	Fertilizers
196.F54	Fluorine compounds
196.F55	Fluorocarbons
	Cf. TD887.F67 Fluorocarbon pollution of air
196.F65	Formaldehyde
196.F67	Fossil fuels
	Cf. TD887.F69 Fossil fuel pollution of air
196.F85	Fumigants
196.H35	Halogen organic compounds
196.H4	Heat
	Cf. TD427.H4 Heat pollution of water
196.H43	Heavy elements
	Heavy metals see TD196.M4
196.H47	Herbicides
196.H94	Hypochlorites
196.L4	Lead
196.L55	Lime

## Special environmental pollutants

## Other environmental pollutants, A-Z -- Continued

196.M38	Mercury
	Cf. TD427.M4 Mercury pollution of water
	Cf. TD887.M37 Mercury pollution of air
196.M4	Metals. Heavy metals. Contaminated processed metals
	Cf. TD427.M44 Heavy metal pollution of water
196.M48	Methoxychlor
196.N36	Nanoparticles. Nanostructured materials
196.N48	Nickel
196.N55	Nitrogen and nitrogen compounds
196.O73	Organic compounds
196.O75	Organolead compounds
196.O76	Organometallic compounds
196.O95	Oxidizing agents
196.P28	Palladium
196.P36	Peroxyacetyl nitrate
196.P38	Pesticides
	Cf. QH545.P4 Effect on plants and animals
196.P4	Petroleum
	Cf. TD427.P4 Petroleum pollution of water
	Cf. TD879.P4 Petroleum pollution of soil
196.P45	Phosphates
196.P46	Phosphogypsum
196.P47	Phthalate esters
196.P5	Plastics
	Cf. TD798 Plastic waste
196.P53	Platinum group
196.P65	Polychlorinated biphenyls
196.P67	Polyethylene glycols
196.R3	Radioactive pollution
	Cf. TD427.R3 Radioactive pollution of water
	Cf. TD812+ Municipal radioactive wastes
	Cf. TD879.R34 Radioactive pollution of soils
	Cf. TD887.R3 Radioactive substances in air
	Cf. TD898 Radioactive substances in air
196.R33	Radon
196.S48	Silver
196.S52	Sodium hydroxide
196.S54	Solvents
196.S56	Soot
196.S95	Sulfur
196.T45	Thallium
196.T7	Trace elements
196.T74	Tritium
196.U73	Urea

## Special environmental pollutants

## Other environmental pollutants, A-Z -- Continued

196.V35

Vanadium

196.W66

Wood waste

196.Z56

Zinc

## Water supply for domestic and industrial purposes

Class here works on the supplying of usable water to consumers,  
including works on the water-supply systems and available  
resources of specific localities and works dealing with both  
water supply and sewerage

For water supply in specific industries, see the industry, e.g.  
TS1116.2 Paper industry

For works describing the hydrology of a region without  
regard to development see GB651+

For water supply and public health see RA591+

For general works on water-supply engineering (including  
the design and construction of works to procure water),  
as well as works on the development of the water  
resources of a watershed see TC401+

For rural water supply see TD927

Periodicals. Societies. Congresses. By language of  
publication

201

English

202

French

203

German

204

Other languages (not A-Z)

208

## Dictionaries and encyclopedias

## Communication of water supply information

209

General works

211

Information services

## History

215

General works

216

Ancient

217

Medieval

218

Modern

219

Nineteenth century

220

Twentieth century

220.2

Twenty-first century

## Country subdivisions

Including all local or departmental reports

## America

221

General works

North America

222

General works

United States

223

General works

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## America

## North America

## United States -- Continued

223.1	Eastern states. Atlantic coast
223.13	Northeastern states
223.15	New England
223.17	Middle Atlantic states
	Including the Chesapeake Bay region
223.2	Appalachian region
223.3	Great Lakes region
223.4	Midwest. Mississippi Valley
223.5	South. Gulf states
223.6	West
223.7	Northwest
223.8	Pacific coast
223.9	Southwest
224.A-.W	States, A-W
	e.g.
224.A4	Alaska
224.H3	Hawaii
225.A-Z	Cities or other special, A-Z
	Canada
226	General works
227.A-Z	Provinces (or other special), A-Z
227.5	Latin America
	Mexico
228.A1	General works
228.A6-Z	States, provinces, etc., A-Z
229.A-Z	Local (Cities, etc.), A-Z
	Central America
230	General works
231.A-Z	Special countries, A-Z
	West Indies
232	General works
233.A-Z	Special islands, A-Z
	South America
234	General works
	Argentina
236.A1	General works
236.A6-Z	States, provinces, etc., A-Z
237.A-Z	Local (Cities, etc.), A-Z
	Bolivia
238.A1	General works
238.A6-Z	States, provinces, etc., A-Z

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## America

## South America

## Bolivia -- Continued

239.A-Z Local (Cities, etc.), A-Z

## Brazil

241.A1 General works

241.A6-Z States, provinces, etc., A-Z

242.A-Z Local (Cities, etc.), A-Z

## Chile

243.A1 General works

243.A6-Z States, provinces, etc., A-Z

244.A-Z Local (Cities, etc.), A-Z

## Colombia

245.A1 General works

245.A6-Z States, provinces, etc., A-Z

246.A-Z Local (Cities, etc.), A-Z

247 Ecuador

248 Guyana

249 Suriname

250 French Guiana

251 Paraguay

252 Peru

253 Uruguay

254 Venezuela

## Europe

255 General works

## Great Britain. England

257 General works

258.A-Z English counties or regions, A-Z

## Ireland

259 General works

259.2 Irish Free State. Ireland (Eire)

259.3 Northern Ireland

260.A-Z Special counties, A-Z

## Scotland

261 General works

262.A-Z Special counties, A-Z

263 Wales

264.A-Z Cities or other special, A-Z

## Austria

265.A1 General works

265.A6-Z States, provinces, etc., A-Z

265.2.A-Z Local (Cities, etc.), A-Z

## Czechoslovakia

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Europe

## Czechoslovakia -- Continued

- 265.3.A1 General works
- 265.3.A6-Z States, provinces, etc., A-Z
- 265.4.A-Z Local (Cities, etc.), A-Z

## Hungary

- 265.5 General works
- 265.9.A-Z Special counties, A-Z
- 266.A-Z Cities or other special, A-Z

## Belgium

- 267.A1 General works
- 267.A6-Z States, provinces, etc., A-Z
- 268.A-Z Local (Cities, etc.), A-Z

## Denmark

- 269.A1 General works
- 269.A6-Z States, provinces, etc., A-Z
- 270.A-Z Local (Cities, etc.), A-Z

## France

- 271.A1 General works
- 271.A6-Z States, provinces, etc., A-Z
- 272.A-Z Local (Cities, etc.), A-Z
- 272.5 Colonies (Collectively)

## Germany

- 273 General works
- 273.1 East Germany. Eastern Germany
- 273.2 Baden-Württemberg
- 273.3 Bavaria
- 273.4 Hesse
- 273.5 Prussia
- 273.6 Saxony
- 273.7 North Rhine-Westphalia
- 273.9.A-Z Other states, A-Z
- 274.A-Z Cities or other special, A-Z
- 274.5 Colonies (Collectively)

## Greece

- 275.A1 General works
- 275.A6-Z States, provinces, etc., A-Z
- 276.A-Z Local (Cities, etc.), A-Z

## Netherlands

- 277.A1 General works
- 277.A6-Z States, provinces, etc., A-Z
- 278.A-Z Local (Cities, etc.), A-Z

## Italy

- 279.A1 General works

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Europe

## Italy -- Continued

279.A6-Z States, provinces, etc., A-Z

280.A-Z Local (Cities, etc.), A-Z

280.5 Malta

## Norway

281.A1 General works

281.A6-Z States, provinces, etc., A-Z

282.A-Z Local (Cities, etc.), A-Z

## Portugal, Azores, etc.

283.A1 General works

283.A6-Z States, provinces, etc., A-Z

284.A-Z Local (Cities, etc.), A-Z

284.5 Colonies (Collectively)

## Russia in Europe

285.A1 General works

285.A6-Z States, provinces, etc., A-Z

286.A-Z Local (Cities, etc.), A-Z

## Spain

287.A1 General works

287.A6-Z States, provinces, etc., A-Z

288.A-Z Local (Cities, etc.), A-Z

288.5

## Scandinavia

## Sweden

289.A1 General works

289.A6-Z States, provinces, etc., A-Z

290.A-Z Local (Cities, etc.), A-Z

## Switzerland

291.A1 General works

291.A6-Z States, provinces, etc., A-Z

292.A-Z Local (Cities, etc.), A-Z

295.A-Z Other regions and countries, A-Z

295.A2 Balkan Peninsula

295.A38 Albania

295.A44 Alps

295.A48 Andorra

295.B3 Baltic Sea

295.B43 Belarus

295.B45 Benelux countries

295.B9 Bulgaria

295.C37 Carpathian Mountains

295.D35 Danube River

295.F5 Finland

295.I43 Iceland

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Europe

## Other regions and countries, A-Z -- Continued

295.L285 Lapland  
 295.L37 Latvia  
 295.L78 Lithuania  
 295.L9 Luxemburg  
 295.M4 Mediterranean Region  
 295.M629 Moldova  
 295.M68 Montenegro  
 295.N67 North Sea  
 295.P7 Poland  
 295.P75 Pomerania (Poland and Germany)  
 295.R48 Rhine River  
 295.R6 Romania  
 295.S55 Slovenia  
 295.T48 Thrace  
 295.U95 Ukraine  
 295.Y8 Yugoslavia

## Asia

299 General works  
 China  
 For Hong Kong see TD313.H85  
 301.A1 General works  
 301.A6-Z States, provinces, etc., A-Z  
 302.A-Z Local (Cities, etc.), A-Z  
 Taiwan  
 302.5.A1 General works  
 302.5.A6-Z States, provinces, etc., A-Z  
 302.6.A-Z Local (Cities, etc.), A-Z  
 South Asia  
 302.9 General works  
 India  
 303.A1 General works  
 303.A6-Z States, provinces, etc., A-Z  
 304.A-Z Local (Cities, etc.), A-Z  
 Pakistan  
 304.5.A1 General works  
 304.5.A6-Z States, provinces, etc., A-Z  
 304.6.A-Z Local (Cities, etc.), A-Z  
 Bangladesh  
 304.65.A1 General works  
 304.65.A6-Z States, provinces, etc., A-Z  
 304.66.A-Z Local (Cities, etc.), A-Z  
 Sri Lanka. Ceylon



## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Asia

## South Asia

## Sri Lanka. Ceylon -- Continued

304.7.A1

## General works

304.7.A6-Z

## States, provinces, etc., A-Z

304.8.A-Z

## Local (Cities, etc.), A-Z

## Japan

305.A1

## General works

305.A6-Z

## States, provinces, etc., A-Z

306.A-Z

## Local (Cities, etc.), A-Z

## Korea

## Including South Korea

306.5.A1

## General works

306.5.A6-Z

## States, provinces, etc., A-Z

306.6.A-Z

## Local (Cities, etc.), A-Z

## North Korea

306.7.A1

## General works

306.7.A6-Z

## States, provinces, etc., A-Z

306.8.A-Z

## Local (Cities, etc.), A-Z

## Iran. Persia

307.A1

## General works

307.A6-Z

## States, provinces, etc., A-Z

308.A-Z

## Local (Cities, etc.), A-Z

## Russia in Asia. Siberia

309.A1

## General works

309.A6-Z

## States, provinces, etc., A-Z

310.A-Z

## Local (Cities, etc.), A-Z

## Turkey. Asia Minor

311.A1

## General works

311.A6-Z

## States, provinces, etc., A-Z

312.A-Z

## Local (Cities, etc.), A-Z

313.A-Z

## Other divisions of Asia, A-Z

313.A3

## Afghanistan

313.A98

## Azerbaijan

313.B47

## Bhutan

313.B54

## Borneo

313.B7

## Brunei

313.B8

## Burma. Myanmar

313.C16

## Cambodia

313.C9

## Cyprus

313.G39

## Gaza Strip

313.H85

## Hong Kong

313.I55

## Indonesia

313.I7

## Iraq

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Asia

## Other divisions of Asia, A-Z -- Continued

313.I75	Israel
313.J6	Jordan
313.K85	Kuwait
313.L28	Laos
313.L4	Lebanon
313.M2	Macau
313.M318	Malaya
313.M32	Malaysia
313.M45	Mekong River Valley
	Myanmar see TD313.B8
313.N4	Nepal
313.P6	Philippines
313.Q36	Qatar
313.S33	Saudi Arabia
313.S53	Singapore
313.S6	Southeast Asia
313.S94	Syria
313.T48	Thailand
313.U54	United Arab Emirates
313.V5	Vietnam
313.W48	West Bank
313.Y45	Yemen (People's Democratic Republic)
313.5	Middle East
314	Arab countries
314.5	Islamic countries
	Africa
315	General works
	Egypt
317.A1	General works
317.A6-Z	States, provinces, etc., A-Z
318.A-Z	Local (Cities, etc.), A-Z
319.A-Z	Other divisions of Africa, A-Z
319.A4	Algeria
319.A5	Angola
319.B57	Botswana
319.B85	Burundi
319.C17	Cameroon
319.C42	Central Africa
319.C43	Central Africa Republic
319.C75	Congo (Brazzaville)
	Congo (Democratic Republic) see TD319.Z3
	Côte d'Ivoire see TD319.I9

## Water supply for domestic and industrial purposes

## Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

319.D3	Dahomey
319.D55	Djibouti
319.E18	East Africa
319.E19	Eastern Africa
319.E8	Ethiopia
319.F82	French-speaking Equatorial Africa
319.F83	French-speaking West Africa
319.G23	Gabon
319.G45	Ghana
319.G92	Guinea
319.G94	Guinea-Bissau
319.I9	Ivory Coast. Côte d'Ivoire
319.K4	Kenya
319.L45	Lesotho
319.L49	Liberia
319.L74	Libya
319.M28	Madagascar
319.M3	Malawi
319.M34	Mali
319.M39	Mauritania
319.M6	Morocco
319.M85	Mozambique
	Namibia see TD319.S68
319.N53	Niger
319.N54	Nigeria
319.N6	Nile River Valley
319.R45	Rhodesia, Southern. Zimbabwe
319.R9	Rwanda
319.S18	Sahel
319.S4	Senegal
319.S5	Sierra Leone
319.S59	Somalia
319.S6	South Africa
319.S64	Southern Africa
319.S68	Southwest Africa. Namibia
319.S73	Sub-Saharan Africa
319.S74	Sudan
319.S87	Swaziland
319.T35	Tanzania
319.T64	Togo
319.T8	Tunisia
319.U4	Uganda

Water supply for domestic and industrial purposes  
Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

319.U66

Upper Volta

319.W48

West Africa

319.Z3

Zaire. Congo (Democratic Republic)

319.Z34

Zambia

Zimbabwe see TD319.R45

## Indian Ocean islands

320

General works

320.5.A-Z

Special islands, A-Z

320.5.M38

Mauritius

320.5.R48

Réunion

## Australasia

320.7

General works

## Australia

321.A1

General works

321.A6-Z

States, provinces, etc., A-Z

322.A-Z

Local (Cities, etc.), A-Z

## New Zealand

322.5.A1

General works

322.5.A6-Z

States, provinces, etc., A-Z

322.6.A-Z

Local (Cities, etc.), A-Z

322.7

Papua New Guinea

## Pacific islands

323

General works

324.A-Z

By island, A-Z

## Arctic regions

325

General works

325.5

Greenland

326

## Antarctica

326.5

## Tropics

327

## Developing countries

## General works

344

Early to 1800

345

1800-

346

## Elementary textbooks

348

## Popular works. Juvenile works

351

## Pocketbooks, tables, etc.

353

## General special

355

## Addresses, essays, lectures

357

## Study and teaching

358

## Safety measures

Including safety measures for utilities and waterworks

## Water supply for domestic and industrial purposes -- Continued

360

## Water rates

For local see TD221+

Cf. TD499+ Meters

## Water quality management

For local see TD221+

365

## General works

365.5

## Biomanipulation

## Water quality monitoring

For local see TD221+

367

## General works

368

## Particle counting

## Qualities of water. Water quality

For local see TD221+

370

## General works

372

## Softness

374

## Hardness and its correction

Chemical purification see TD451+

375

## Sensory qualities

## Examination and analysis of water

Including results

For specific pollutants of water see TD427.A+

Cf. GB855+ Natural water chemistry

380

## General works

Chemical see QD142

384

## Microscopical. Bacteriological

387.A-Z

## Special bodies of water, A-Z

For water supplies of a special region or city see

TD221+

## Water conservation

For special methods of conservation, see the method, e.g.

SB439.8, Drought-tolerant plants; SB475.83, Landscape

architecture; TD397, Evaporation control in reservoirs;

TC401-TC558, Water resources development; TD495-

TD497, Location of leaks in mains

For local see TD221+

388.A1

## Periodicals, societies, congresses, etc.

388.A5-Z

## General works

388.5

## General special

## Sources of water supply

Cf. GB651+ Hydrology

390

## General works

392

## Rivers, lakes, ponds, etc.

## Water supply for domestic and industrial purposes

## Sources of water supply -- Continued

## Reservoirs

For dams and their construction see TC540+

For special reservoirs see TD221+

Cf. QH96.8.R35 Reservoir drawdown (Freshwater biology)

Cf. QH541.5.R4 Ecology

Cf. TD195.R47 Environmental effects

395

## General works

396

## Sedimentation

397

## Evaporation control

398

## Aqueducts, conduits, etc.

## Groundwater

For local see TD221+

Cf. GB1001+ Hydrology

Cf. TD426+ Pollution of groundwater

403

## General works

404

## Artificial recharge

Cf. TD765 Disposal of sewage effluent

404.5

## Aquifer storage recovery

404.7

## Qanats

## Wells

For local see TD221+

Cf. TD426.8 Water pollution

405

## General works

407

## General special

Including standards

410

## Artesian wells

412

## Well digging and boring

414

## Boring machinery

Including catalogs

## Pumps see TJ899+

415

## Dew and fog

For dew ponds see TD395

418

## Rainwater (Collection and use)

## Water pollution

Cf. GC1080+ Marine pollution

Cf. QH545.W3 Effect on plants and animals

Cf. RA591+ Public health

419

## Periodicals. Societies. Serials

419.5

## Congresses

420

## General works

422

## Juvenile works

423

## General special

## Study and teaching

## Water supply for domestic and industrial purposes

## Water pollution

## Study and teaching -- Continued

424

## General works

## By region or country

## United States

424.3

## General works

424.35.A-Z

## By region or state, A-Z

424.4.A-Z

## Other regions or countries, A-Z

424.5

## Research

424.8

## Nonpoint source pollution

For local see TD221+

425

## Pollution of streams

For effect of oil pollution on marine organisms see

QH91.8.O4

For pollution of special water supplies and bodies of  
water see TD221+For sewage effluent disposal into streams, etc. see  
TD763+For sewage sludge disposal into streams, etc. see  
TD771.5

## Pollution of groundwater

426

## General works

426.8

## Wells

427.A-Z

## Specific pollutants and organisms, A-Z

Including presence of naturally occurring substances

427.A27

## Acid deposition

427.A28

## Acid mine drainage

427.A35

## Agricultural chemicals

427.A45

## Aluminum

427.A68

## Aquatic pests

Cf. SH174.5+ Fish culture

427.A77

## Arsenic

427.A84

## Atmospheric deposition

427.A86

## Atrazine

427.B37

## Bacteria

427.B67

## Boron

427.B75

## Bromate

427.C33

## Cadmium

427.C37

## Carbon dioxide

427.C48

## Cesium

427.C54

## Chemical weapons

427.C57

## Chromium

427.C66

## Copper

427.C78

## Cryptosporidium

427.C9

## Cyanides

## Water supply for domestic and industrial purposes

## Water pollution

## Specific pollutants and organisms, A-Z -- Continued

427.C92	Cyanobacteria
427.D34	DDT (Insecticide)
427.D4	Detergents. Surfactants
427.D47	Dibutyltin
427.D52	Dibromochloropropane
427.D547	Dioxane
427.D55	Dioxins
427.D77	Drugs
427.E68	Enterobacteriaceae
427.E82	Estrogen
427.E83	Ethylene dibromide
427.F45	Fertilizers
427.F54	Fluorides
427.F58	Fly ash
427.F68	Fouling organisms
427.F85	Fungi
427.G55	Glyphosate
	Halogenated hydrocarbons see TD427.H93
427.H3	Hazardous substances
427.H4	Heat pollution
	Heavy metals see TD427.M44
427.H46	Herbicides
427.H49	Hexazinone
427.H85	Humus
427.H93	Hydrocarbons
	Including halogenated hydrocarbons and polycyclic aromatic hydrocarbons
427.I55	Inorganic compounds
427.M35	Marine debris
427.M4	Mercury
427.M44	Metals
	Including heavy metals
427.M53	Microorganisms
427.M93	Mycobacterium avium
427.N5	Nitrogen and nitrogen compounds
427.N87	Nutrients
427.O7	Organic compounds
427.P27	Particles
427.P33	Perchlorates
427.P35	Pesticides
427.P4	Petroleum
	Cf. SH177.O53 Effect on fish culture
427.P53	Phenols



## Water supply for domestic and industrial purposes

## Water pollution

## Specific pollutants and organisms, A-Z -- Continued

- 427.P56 Phosphorus and phosphorus compounds
  - Including phosphates
- 427.P62 Plastic scrap
- 427.P63 Plutonium
- 427.P646 Polybrominated diphenyl ethers
- 427.P65 Polychlorinated biphenyls
- Polycyclic aromatic hydrocarbons see TD427.H93
- 427.P67 Polyelectrolytes
- 427.R3 Radioactive substances
- 427.S24 Salt
- 427.S33 Sediment
- 427.S38 Selenium
- 427.S94 Sulfur and sulfur compounds
  - Including sulfides
  - Cf. TD196.S95 Environmental pollutants
- Surfactants see TD427.D4
- 427.T42 Technetium
- Thermal pollution see TD427.H4
- 427.T7 Trace elements
- 427.T73 Tributyltin
- 427.T75 Trichloroethylene
- 427.T77 Trihalomethanes
- 427.V36 Vanadium
- 427.V55 Viruses
  - Cf. QR388.5 Aquatic virology
- 427.V64 Volcanic ash, tuff, etc.
- 427.Z43 Zebra mussel
- 428.A-Z Sources of pollution, A-Z
  - Class here works that limit their discussions to wastes from specific industries, facilities, etc., as pollutants of water
  - For nonpoint source pollution see TD424.8
  - For waste disposal and control in specific industries see TD899.A+
- 428.A37 Agriculture
- 428.A48 Aluminum mines and mining. Bauxite mines and mining
- 428.A68 Aquaculture
- 428.A86 Atomic power plants
- 428.B34 Ballast water. Ballast water treatment facilities
- Bauxite mines and mining see TD428.A48
- 428.C58 Coal-fired power plants
- 428.C6 Coal mines and mining
- 428.C64 Construction industry
- 428.C66 Copper mines and mining

## Water supply for domestic and industrial purposes

## Water pollution

## Sources of pollution, A-Z -- Continued

- 428.D74 Dredging. Dredging spoils
- 428.D78 Dry cleaning industry
- 428.F57 Fire extinguishing agents
- 428.F67 Forestry
- 428.G64 Gold mines and mining
- 428.I74 Iron mines and mining
- 428.L35 Land use
- 428.M47 Metallurgical plants
- 428.M49 Methane industry
- 428.M56 Mineral industries
- 428.M68 Motorboat racing
- Nuclear power plants see TD428.A86
- 428.O33 Offshore oil industry
- 428.O35 Oil sands extraction plants
- 428.P35 Paper industry
- 428.P47 Petroleum refineries
- 428.P54 Pharmaceutical industry
- 428.P67 Power plants
- 428.R63 Road construction
- 428.R84 Runoff from roads
- 428.S47 Sewerage. Sewage disposal plants
- 428.S55 Ships
- 428.S58 Ski resorts
- 428.S64 Soil management
- 428.T78 Trucking
- 428.U73 Uranium mines and mining
- 428.W65 Woodpulp industry
- 429 Water reuse

## Water purification. Water treatment and conditioning

Cf. RA591+ Public health

Cf. TD485+ Waterworks, etc.

Cf. TD745+ Purification of sewage

- 429.5 Periodicals, societies, congresses, etc.
- 430 General works
- 433 General special
- 434 Water treatment plants
- Special methods
- Mechanical treatment
- 437 General works
- 439 Screening. Settling. Sedimentation
  - Including sedimentation tanks and basins
  - Cf. TD455 Coagulation
- Filtration

	Water supply for domestic and industrial purposes
	Water purification. Water treatment and conditioning
	Special methods
	Mechanical treatment
	Filtration -- Continued
441	General works
442	Direct filtration
442.5	Membrane filtration
443	Natural filtration
444	Roughing filtration
445	Sand filtration
446	Diatomaceous earth filtration
447	Filter basins and plants
449	Domestic filters
449.5	Adsorption
	Chemical treatment
451	General works
455	Chemical precipitation. Coagulation. Flocculation
457	Odor control
458	Aeration
	Disinfection
459	General works
460	Ultraviolet ray treatment
461	Ozone treatment
	Chlorination
462	General works
463	Hypochlorite treatment
464	Chlorine dioxide
464.5.A-Z	Other, A-Z
465	Algae control by copper sulfate and other chemicals
466	Removal of dissolved minerals. Water softening
	Cf. TD478+ Saline water conversion
467	Fluoridation
468	Other methods
	Including color removal, stabilization, nitrification
471	Electrolytic treatment
473	Foam fractionation and flotation
475	Biological treatment
476	Irradiation
477	Other methods
	Water treatment plant residuals see TD899.W3
	Saline water conversion
478	Periodicals, societies, congresses, etc.
	Special countries
	United States
478.3	General works

- Water supply for domestic and industrial purposes
  - Saline water conversion
    - Special countries
      - United States -- Continued
        - By state, A-W
          - 478.5.A-.W
        - Other countries, A-Z
          - 478.6.A-Z
      - General works
        - 479
      - Juvenile works
        - 479.15
      - General special
        - 479.2
      - Pocketbooks, tables, etc.
        - 479.25
      - Estimates and costs
        - 479.3
      - Desalination plants
        - For plants in specific locations see TD478.3+
        - For special conversion methods see TD480+
      - 479.4 General works
      - 479.5 Combined purpose plants
      - 479.6 Nuclear powered plants
      - 479.7 Solar powered plants
      - 479.8 Pretreatment of saline waters. Scale
      - Special conversion methods
        - 480 Distillation methods
        - 480.2 Freezing methods
        - 480.3 Hydrate process
        - Membrane methods. Reverse osmosis process
          - 480.4 General works
          - 480.5 Electrodialysis
          - 480.7 Ion exchange desalting
      - Water distribution systems
        - For local see TD221+
        - Aqueducts see TD398
        - Reservoirs see TD395+
        - 481 General works
        - 482 General special
          - Including smaller plants, fountains, pumps, etc.
        - Waterworks, pumping stations, etc.
          - 485 General works
          - 487 General special
          - Pumping machinery see TJ899+
          - 487.5 Security measures
          - 489 Water towers, standpipes, etc.
            - Cf. TH9332+ Fire extinction
          - 491 Mains, pipes, valves, etc.
          - Flow of water see TC171+
          - 493 Water withdrawals
            - For local see TD221+

## Water supply for domestic and industrial purposes -- Continued

## Water waste and its prevention

Including location of breaks or leakage in mains

495

General works

497

General special

Including unauthorized users of water

## Water meters and metering

Cf. TC177 Hydraulics (Current meters)

499

General works

500

Special makes of meters

Water supply for farms, country houses, etc. see TD927

## Sewage collection and disposal systems. Sewerage

For industrial wastes see TD896+

Cf. HD4475+ Economic aspects of sewage disposal

Cf. RA567+ Public hygiene

511

Periodicals, societies, congresses, etc.

## History

515

General works

516

Ancient

517

Medieval

518

Modern

519

19th century

520

20th century

## Country subdivisions

Including all local departmental reports

## America

521

General works

## North America

522

General works

## United States

523

General works

523.1

Eastern states. Atlantic coast

523.15

New England

523.2

Appalachian region

523.3

Great Lakes region

523.4

Midwest. Mississippi Valley

523.5

South. Gulf states

523.6

West

523.7

Northwest

523.8

Pacific coast

523.9

Southwest

524.A-.W

States, A-W

e.g.

524.A4

Alaska

524.H3

Hawaii

525.A-Z

Cities or other special, A-Z

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

## America

## North America -- Continued

## Canada

526.A1

General works

526.A6-Z

Provinces, A-Z

527.A-Z

Local (Cities, etc.), A-Z

527.5

## Latin America

## Mexico

528.A1

General works

528.A6-Z

States, provinces, etc., A-Z

529.A-Z

Local (Cities, etc.), A-Z

## Central America

530

General works

531.A-Z

Special countries, A-Z

## West Indies

532

General works

533.A-Z

Special islands, A-Z

## South America

534

General works

## Argentina

536.A1

General works

536.A6-Z

States, provinces, etc., A-Z

537.A-Z

Local (Cities, etc.), A-Z

## Bolivia

538.A1

General works

538.A6-Z

States, provinces, etc., A-Z

539.A-Z

Local (Cities, etc.), A-Z

## Brazil

541.A1

General works

541.A6-Z

States, provinces, etc., A-Z

542.A-Z

Local (Cities, etc.), A-Z

## Chile

543.A1

General works

543.A6-Z

States, provinces, etc., A-Z

544.A-Z

Local (Cities, etc.), A-Z

## Colombia

545.A1

General works

545.A6-Z

States, provinces, etc., A-Z

546.A-Z

Local (Cities, etc.), A-Z

547

## Ecuador

548

## Guyana

549

## Suriname

550

## French Guiana

551

## Paraguay

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

## America

## South America -- Continued

552

Peru

553

Uruguay

554

Venezuela

## Europe

555

General works

## Great Britain. England

557

General works

558.A-Z

English counties or regions, A-Z

## Ireland

559

General works

559.2

Irish Free State. Ireland (Eire)

559.3

Northern Ireland

560.A-Z

Special counties, A-Z

## Scotland

561

General works

562.A-Z

Special counties, A-Z

563

## Wales

564.A-Z

Cities or other special, A-Z

## Austria

565.A1

General works

565.A6-Z

States, provinces, etc., A-Z

565.2.A-Z

Local (Cities, etc.), A-Z

## Czechoslovakia

565.3.A1

General works

565.3.A6-Z

States, provinces, etc., A-Z

565.4.A-Z

Local (Cities, etc.), A-Z

## Hungary

565.5

General works

565.9.A-Z

Special counties, A-Z

566.A-Z

Cities or other special, A-Z

## Belgium

567.A1

General works

567.A6-Z

States, provinces, etc., A-Z

568.A-Z

Local (Cities, etc.), A-Z

## Denmark

569.A1

General works

569.A6-Z

States, provinces, etc., A-Z

570.A-Z

Local (Cities, etc.), A-Z

## France

571.A1

General works

571.A6-Z

States, provinces, etc., A-Z

572.A-Z

Local (Cities, etc.), A-Z

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

## Europe

## France -- Continued

572.5 Colonies (Collectively)

## Germany

573 General works

573.1 East Germany. Eastern Germany

573.2 Baden-Württemberg

573.3 Bavaria

573.4 Hesse

573.5 Prussia

573.6 Saxony

573.7 North Rhine-Westphalia

573.9.A-Z Other states, A-Z

574.A-Z Cities or other special, A-Z

574.5 Colonies (Collectively)

## Greece

575.A1 General works

575.A6-Z States, provinces, etc., A-Z

576.A-Z Local (Cities, etc.), A-Z

## Netherlands

577.A1 General works

577.A6-Z States, provinces, etc., A-Z

578.A-Z Local (Cities, etc.), A-Z

## Italy

579.A1 General works

579.A6-Z States, provinces, etc., A-Z

580.A-Z Local (Cities, etc.), A-Z

580.5

## Malta

## Norway

581.A1 General works

581.A6-Z States, provinces, etc., A-Z

582.A-Z Local (Cities, etc.), A-Z

## Portugal, Azores, etc.

583.A1 General works

583.A6-Z States, provinces, etc., A-Z

584.A-Z Local (Cities, etc.), A-Z

584.5 Colonies (Collectively)

## Russia in Europe

585.A1 General works

585.A6-Z States, provinces, etc., A-Z

586.A-Z Local (Cities, etc.), A-Z

## Spain

587.A1 General works

587.A6-Z States, provinces, etc., A-Z



## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Europe

## Spain -- Continued

588.A-Z Local (Cities, etc.), A-Z

588.5 Scandinavia

## Sweden

589.A1 General works

589.A6-Z States, provinces, etc., A-Z

590.A-Z Local (Cities, etc.), A-Z

## Switzerland

591.A1 General works

591.A6-Z States, provinces, etc., A-Z

592.A-Z Local (Cities, etc.), A-Z

595.A-Z Other regions and countries, A-Z

595.A2 Balkan Peninsula

595.A38 Albania

595.A44 Alps

595.A48 Andorra

595.B3 Baltic Sea

595.B43 Belarus

595.B45 Benelux countries

595.B9 Bulgaria

595.C37 Carpathian Mountains

595.D35 Danube River

595.F5 Finland

595.I43 Iceland

595.L285 Lapland

595.L37 Latvia

595.L78 Lithuania

595.L9 Luxemburg

595.M4 Mediterranean Region

595.N67 North Sea

595.P7 Poland

595.P75 Pomerania (Poland and Germany)

595.R48 Rhine River

595.R6 Romania

595.S4 Serbia

595.S55 Slovenia

595.T48 Thrace

595.U95 Ukraine

595.Y8 Yugoslavia

## Asia

599 General works

## China

For Hong Kong see TD613.H85

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

## Asia

## China -- Continued

- 601.A1 General works
- 601.A6-Z States, provinces, etc., A-Z
- 602.A-Z Local (Cities, etc.), A-Z

## Taiwan

- 602.5.A1 General works
- 602.5.A6-Z States, provinces, etc., A-Z
- 602.6.A-Z Local (Cities, etc.), A-Z

## South Asia

- 602.9 General works

## India

- 603.A1 General works
- 603.A6-Z States, provinces, etc., A-Z
- 604.A-Z Local (Cities, etc.), A-Z

## Pakistan

- 604.5.A1 General works
- 604.5.A6-Z States, provinces, etc., A-Z
- 604.6.A-Z Local (Cities, etc.), A-Z

## Bangladesh

- 604.65.A1 General works
- 604.65.A6-Z States, provinces, etc., A-Z
- 604.66.A-Z Local (Cities, etc.), A-Z

## Sri Lanka. Ceylon

- 604.7.A1 General works
- 604.7.A6-Z States, provinces, etc., A-Z
- 604.8.A-Z Local (Cities, etc.), A-Z

## Japan

- 605.A1 General works
- 605.A6-Z States, provinces, etc., A-Z
- 606.A-Z Local (Cities, etc.), A-Z

## Korea

## Including South Korea

- 606.5.A1 General works
- 606.5.A6-Z States, provinces, etc., A-Z
- 606.6.A-Z Local (Cities, etc.), A-Z

## North Korea

- 606.7.A1 General works
- 606.7.A6-Z States, provinces, etc., A-Z
- 606.8.A-Z Local (Cities, etc.), A-Z

## Iran. Persia

- 607.A1 General works
- 607.A6-Z States, provinces, etc., A-Z
- 608.A-Z Local (Cities, etc.), A-Z

## Sewage collection and disposal systems. Sewerage

## Country and city subdivisions

## Asia -- Continued

## Russia in Asia. Siberia

609.A1

General works

609.A6-Z

States, provinces, etc., A-Z

610.A-Z

Local (Cities, etc.), A-Z

## Turkey. Asia Minor

611.A1

General works

611.A6-Z

States, provinces, etc., A-Z

612.A-Z

Local (Cities, etc.), A-Z

613.A-Z

## Other divisions of Asia, A-Z

613.A3

Afghanistan

613.B54

Borneo

613.B7

Brunei

613.B8

Burma. Myanmar

613.C16

Cambodia

613.C9

Cyprus

613.G39

Gaza Strip

613.H85

Hong Kong

613.I55

Indonesia

613.I7

Iraq

613.I75

Israel

613.J6

Jordan

613.K85

Kuwait

613.L28

Laos

613.L4

Lebanon

613.M2

Macau

613.M318

Malaya

613.M32

Malaysia

613.M45

Mekong River Valley

Myanmar see TD613.B8

613.N4

Nepal

613.P6

Philippines

613.Q36

Qatar

613.S33

Saudi Arabia

613.S53

Singapore

613.S6

Southeast Asia

613.S94

Syria

613.T48

Thailand

613.U54

United Arab Emirates

613.V5

Vietnam

613.W48

West Bank

613.Y45

Yemen (People's Democratic Republic)

613.5

## Middle East

614

## Arab countries

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions -- Continued

614.5	Islamic countries
	Africa
615	General works
	Egypt
617.A1	General works
617.A6-Z	States, provinces, etc., A-Z
618.A-Z	Local (Cities, etc.), A-Z
619.A-Z	Other divisions of Africa, A-Z
619.A4	Algeria
619.A5	Angola
619.B57	Botswana
619.B85	Burundi
619.C17	Cameroon
619.C42	Central Africa
619.C43	Central Africa Republic
619.C75	Congo (Brazzaville)
	Congo (Democratic Republic) see TD619.Z3
	Côte d'Ivoire see TD619.I9
619.D3	Dahomey
619.D55	Djibouti
619.E18	East Africa
619.E19	Eastern Africa
619.E8	Ethiopia
619.F82	French-speaking Equatorial Africa
619.F83	French-speaking West Africa
619.G23	Gabon
619.G45	Ghana
619.G92	Guinea
619.G94	Guinea-Bissau
619.I9	Ivory Coast. Côte d'Ivoire
619.K4	Kenya
619.L45	Lesotho
619.L49	Liberia
619.L74	Libya
619.M28	Madagascar
619.M3	Malawi
619.M34	Mali
619.M39	Mauritania
619.M6	Morocco
619.M85	Mozambique
	Namibia see TD619.S68
619.N53	Niger
619.N54	Nigeria
619.N6	Nile River Valley

Sewage collection and disposal systems. Sewerage  
Country and city subdivisions

## Africa

## Other divisions of Africa, A-Z -- Continued

619.R45	Rhodesia, Southern. Zimbabwe
619.R9	Rwanda
619.S18	Sahel
619.S38	Senegal
619.S5	Sierra Leone
619.S59	Somalia
619.S6	South Africa
619.S64	Southern Africa
619.S68	Southwest Africa. Namibia
619.S73	Sub-Saharan Africa
619.S74	Sudan
619.S87	Swaziland
619.T35	Tanzania
619.T64	Togo
619.T8	Tunisia
619.U4	Uganda
619.U66	Upper Volta
619.W48	West Africa
619.Z3	Zaire. Congo (Democratic Republic)
619.Z34	Zambia
	Zimbabwe see TD619.R45

## Indian Ocean islands

620	General works
620.5.A-Z	Special islands, A-Z
620.5.M38	Mauritius
620.5.R48	Réunion

## Australasia

620.7	General works
	Australia
621.A1	General works
621.A6-Z	States, provinces, etc., A-Z
622.A-Z	Local (Cities, etc.), A-Z
	New Zealand
622.5.A1	General works
622.5.A6-Z	States, provinces, etc., A-Z
622.6.A-Z	Local (Cities, etc.), A-Z
622.7	Papua New Guinea

## Pacific islands

623	General works
624.A-Z	By island, A-Z

## Arctic regions

625	General works
-----	---------------

	Sewage collection and disposal systems. Sewerage
	Country and city subdivisions
	Arctic regions -- Continued
625.5	Greenland
626	Antarctica
626.5	Tropics
627	Developing countries
	General works
644	Early to 1800
645	1800-
646	Elementary works
648	Popular works
651	Pocketbooks, tables, etc.
653	General special
	Including costs
655	Addresses, essays, lectures
	Urban runoff
	Cf. TD665 Storm sewer system
657	General works
657.4	Rain gardens
657.5	Stormwater infiltration
658	Sewerage systems design
659	Layout of the system
	Sewerage systems
662	Combined system
664	Separate system
665	Storm sewer system
666	Liernur system
668	Shone system
670	Other systems
	Sewers
	For testing the strength of cement pipe see TA447
	For testing the strength of metal pipe see TA492.P6
673	General works
	Shape and size. Theory of flow
675	General works
676	Tables, formulas, diagrams
	Design and construction
678	General works
680	Brick
682	Cement and clay. Concrete
684	Clay pipe
686	Steel and iron pipe
688	Other material
690	Sewer gas, explosions, etc.
691	Sewer corrosion

## Sewage collection and disposal systems. Sewerage

## Sewers -- Continued

- 692 Ventilation of sewers
- Sewer appurtenances
- 695 General works
- 696 Manholes
- 698 Flushing apparatus
- 701 Regulators
- 705 River crossings, etc.
- 711 Intercepting and outfall sewers
- Maintenance and repair
- 716 General works
- 719 Inspection and cleaning
- 722 Collecting reservoirs
- 725 Pumping stations

## Sewage

- 730 General works
- 733 General special
- 735 Analysis, sampling methods, etc.
- 736 Microbiology
- 737 Biochemical oxygen demand

## Sewage disposal systems

For local see TD521+

- 741 General works
- 743 General special
- Treatment, purification, etc.
- 745 General works
- 746 Sewage disposal plants
- 746.5 Oxidation ponds. Stabilization ponds. Sewage lagoons
- Disinfection. Deodorization
- 747 General works
- 747.5 Ultraviolet ray treatment
- 747.7 Chlorination
- 747.9 Neutralization
- 748 Screening. Skimming
- Sedimentation. Settling tanks
- Cf. TD778 Septic tanks
- 749 General works
- 750 Imhof tanks
- 751 Sedimentation with coagulation. Chemical precipitation.
- Flocculation
- 753 Filtration. Screening
- 753.5 Adsorption
- 754 Membrane methods. Reverse osmosis process
- 754.5 Foam fractionation and flotation

## Sewage collection and disposal systems. Sewerage

## Sewage disposal systems

## Treatment, purification, etc. -- Continued

## Biological purification. Bacterial purification

Cf. TD746.5 Oxidation ponds

Cf. TD764 Self-purification of streams, etc.

755

## General works

756

## Activated sludge method

756.45

## Anaerobic treatment

756.5

## Constructed wetlands

756.65

## Microbial granulation technology

757

## Electrolytic treatment

757.5

## Ion exchange

758

## Aeration. Oxidation

758.5.A-Z

## Removal of specific chemical elements, compounds, etc.,

## A-Z

758.5.C45

## Chlorine

758.5.C65

## Color removal

758.5.C93

## Cyanides

758.5.H39

## Hazardous wastes

758.5.H43

## Heavy metals

758.5.N58

## Nitrogen

758.5.N58

## Nutrients

758.5.O37

## Oil

758.5.O75

## Organic compounds

758.5.P53

## Phenols

758.5.P56

## Phosphorus

758.5.P64

## Polychlorinated biphenyls

758.5.S44

## Silver

## Disposal of sewage effluent

759

## General works

760

## Disposal on land. Irrigation. Sewage farming

761

## Subsurface disposal. Deep-well injection

Disposal by dilution. Discharge into streams, lakes,  
oceans

763

## General works

764

## Self-purification of streams, etc.

765

## Other methods

Including recharge of groundwaters

Cf. TD429 Water reuse

## Sewage sludge treatment and disposal

767

## General works

## Properties of sewage sludge. Tests

767.4

## General works

767.7

## Activated sludge

## Treatment



	Sewage collection and disposal systems. Sewerage
	Sewage disposal systems
	Sewage sludge treatment and disposal
	Treatment -- Continued
768	General works
	Sludge digestion. Digestion tanks
769	General works
769.4	Sludge gas production and utilization
769.7	Dewatering. Drying
769.8	Irradiation
	Special disposal methods
	Incineration
770	General works
770.3	Sewage sludge ash
771	Sanitary landfills. Burial
771.5	Discharge into streams, ocean
772	Manufacture into fertilizer, soil builder, etc.
	Disposal as fertilizer, soil builder, etc.
	Cf. SD408 Forest fertilization
774	General works
775	Cesspools, middens, privies, latrines
	Cf. TH4975 Design and construction of privies
776	Earth closets
778	Septic tanks
779	Aerated package treatment systems
780	Pail systems. Can privies
	Municipal refuse. Solid wastes
	Class here collection and disposal
785	Periodicals, societies, congresses, etc.
785.5	Dictionaries and encyclopedias
786	Directories
	Special countries
	United States
788	General works
788.4.A-Z	By region or state, A-Z
	Subarrange each state by Table T4a
789.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a
790	Developing countries
791	General works
792	Juvenile works
793	General special
	Study and teaching
793.2	General works
	By region or country
	United States

	Municipal refuse. Solid wastes
	Study and teaching
	By region or country
	United States -- Continued
793.25	General works
793.26.A-Z	By region or state, A-Z
793.27.A-Z	Other regions or countries, A-Z
793.3	Research
793.7	Estimates and costs
	Waste minimization
793.9	General works
793.95	Source reduction
	Special industries, plants, processes, etc. see TD899.A+
794	Collection and haulage
794.2	Integrated solid waste management
	For local see TD788+
	Recycling
	Cf. SB454.3.R43 Gardening
	Cf. TS169 Waste control
794.5	General works
794.8	Source separation
	Special disposal methods
	Open dumps
795	General works
795.4	Junkyards and automobile graveyards
795.7	Sanitary landfills
	Incineration. Incinerators
796	General works
796.2	Waste heat utilization
796.5	Composting
796.7	Other methods
	Special wastes and their disposal
797	Ashes
	Automobile-related wastes
797.5	General works
797.7	Waste tires
	Packaging waste
797.9	General works
797.92	Cushioning materials
798	Plastic waste
799	Glass
799.5	Metal
799.7	Household appliances
799.8	Household batteries
799.85	Electronic apparatus and appliances
800	Petroleum waste

	Municipal refuse. Solid wastes
	Special wastes and their disposal -- Continued
800.5	Waste paint
	Garbage
801	General works
803	Incinerators
	Organic wastes
804	General works
805	Paper waste
810	Wood waste
810.5	Yard waste
(811)	Animal waste
	see TD930.2
	Hazardous substances see TD1020+
	Radioactive wastes and their disposal
	Cf. TD897.85+ Industrial wastes
	Cf. TD1020+ Hazardous wastes and their disposal
812	General works
	By region or country
	United States
812.2	General works
812.3.A-Z	By region or state, A-Z
812.4.A-Z	Other regions or countries, A-Z
812.5.A-Z	Special chemical elements, compounds, etc., A-Z
812.5.A48	Aluminum
812.5.C66	Copper
812.5.M45	Mercury
812.5.O73	Organohalogen compounds
	Street cleaning. Litter and its removal
	Cf. TE220.55 Roadside litter control
813	General works
	Special countries
	America
815	General works
	United States
817	General works
818.A-W	States, A-W
819.A-Z	Cities, A-Z
	Canada
820	General works
821.A-Y	Provinces, A-Y
822.A-Z	Cities, A-Z
823	Latin America
	Mexico
824	General works
825.A-Z	Cities, A-Z

- Street cleaning. Litter and its removal
- Special countries
  - America -- Continued
    - Central America
      - 826 General works
      - 827.A-Z Special countries, A-Z
    - West Indies
      - 829 General works
      - 830.A-Z Special islands, A-Z
    - South America
      - 832 General works
      - 833.A-Z Special countries, A-Z
  - Europe
    - 835 General works
    - 836.A-Z Special countries, A-Z
  - Asia
    - 838 General works
    - 839.A-Z Special countries, A-Z
  - Africa
    - 841 General works
    - 843.A-Z Special countries, A-Z
  - Australia
    - 845 General works
    - 846.A-Z States, A-Z
  - New Zealand
    - 847 Pacific islands
  - Pacific islands
    - 848 General works
    - 849.A-Z Special islands, A-Z
- 860 Tools and appliances
- Street sprinkling
  - 863 General works
  - 865 Sprinkling carts
- Control of snow and ice on streets
  - Cf. TE220.5 Control of snow and ice on roads and highways
- 868 General works
- 870 Use of chemicals
  - Including salt, etc.
- (877) Street lighting
  - see TK4188 (Electric); TP741 (Nonelectric)
- Special types of environment
  - Soil pollution. Soil remediation
    - Cf. RA571 Environmental health
    - Cf. S622+ Soil conservation
  - 878 General works
    - By region or country

- Special types of environment
- Soil pollution. Soil remediation
  - By region or country -- Continued
  - United States
    - 878.2 General works
    - 878.3.A-Z By region or state, A-Z
    - 878.4.A-Z Other regions or countries, A-Z
  - Special remediation methods
    - 878.47 Electrochemical remediation
    - 878.48 Phytoremediation
    - 878.5 Soil vapor extraction
    - 878.6 Soil bioventing
    - 878.7 Soil vitrification
  - 879.A-Z Particular pollutants, A-Z
  - 879.A35 Agricultural chemicals
    - Class here works on the pollution of soils by agricultural chemicals
    - For general works on agricultural chemicals and their behavior in soils see S592.6.A34
  - 879.B4 Benzopyrene
  - 879.B47 Beryllium
  - 879.C33 Cadmium
  - 879.C45 Chromium
  - 879.C63 Cobalt
  - 879.C93 Cyanides
  - 879.H38 Hazardous wastes. Hazardous substances
  - 879.H4 Heavy metals
  - 879.H47 Herbicides
  - 879.I55 Inorganic compounds
  - 879.L43 Lead
  - 879.M47 Metals
  - 879.O73 Organic compounds
  - 879.P37 Pesticides
    - Cf. S592.6.P43 Behavior and movement in soils
    - Cf. SB951.145.S65 Soil pesticides
  - 879.P4 Petroleum. Oil pollution
  - 879.P64 Polychlorinated biphenyls
  - 879.P66 Polycyclic aromatic hydrocarbons
  - 879.R34 Radioactive pollution
  - 880.A-Z Special industries, facilities, activities, etc., A-Z
  - 880.L35 Land use

## Special types of environment -- Continued

## Air pollution and its control

Cf. HC79.A4 Economic aspects

Cf. QC882+ Atmospheric pollutants

Cf. QH545.A3 Influence on plants and animals

Cf. QP82.2.A3 Physiological effect

Cf. RA576+ Public health

- 881 Periodicals, societies, congresses, etc.
- 881.5 Dictionaries and encyclopedias
- 882 Directories
- 883 General works
- 883.1 General special
- 883.13 Juvenile works
- 883.14 Addresses, essays, lectures
- Study and teaching
- 883.143 General works
  - By region or country
  - United States
- 883.144 General works
- 883.145.A-Z By region or state, A-Z
- 883.148.A-Z Other regions or countries, A-Z
- 883.15 Research
- 883.17 Indoor air pollution
  - Including indoor air quality
- Special regions or countries
- United States
- 883.2 General works
- 883.5.A-Z By region or state, A-Z
  - Subarrange each state by Table T4a
- 883.7.A-Z Other regions or countries, A-Z
  - Subarrange each country by Table T4a
- Particular air pollutants and their control
- 884 Smoke
  - Cf. QC882.6 Meteorology
  - Cf. TH1088.5 Smoke control systems
  - Cf. TH2281+ Chimneys
- 884.3 Smog. Fog-pollutant mixtures
- 884.5 Dusts, fumes, and mists; particulate matter
  - Cf. QC882.5 Meteorology
- Gases. Flue gases
- 885 General works
- 885.5.A-Z Individual gases and groups of gases, A-Z
- 885.5.C3 Carbon dioxide
- 885.5.C33 Carbon monoxide
- 885.5.C47 Chlorine
- 885.5.C5 Chlorofluoromethane

## Special types of environment

## Air pollution and its control

## Particular air pollutants and their control

## Gases. Flue gases

## Individual gases and groups of gases, A-Z -- Continued

885.5.C66

Combustion gases

885.5.F57

Fluorine

885.5.F67

Formaldehyde

885.5.G73

Greenhouse gases

885.5.H9

Hydrogen sulfide

885.5.L35

Landfill gases

885.5.M48

Methane

885.5.N38

Natural gas

885.5.N5

Nitrogen oxides

885.5.O74

Organic compounds

885.5.O85

Ozone

885.5.R33

Radon

885.5.S8

Sulfur dioxide

885.5.S85

Sulfur oxides

886

## Odors

886.5

## Automobile exhaust

Including emissions from motor vehicles in general

Cf. TL214.P6 Pollution control devices for motor  
vehicles

886.7

## Aircraft exhaust emissions

886.8

## Diesel exhaust

887.A-Z

## Other pollutants, A-Z

887.A37

Acrylonitrile

887.A66

Ammonia

887.A8

Asbestos

887.B43

Benzene

887.B45

Benzopyrene

887.B58

Bituminous materials

887.C34

Cadmium

887.C37

Carbon disulfide

887.C47

Chlorofluorocarbons

887.D56

Dioxins

887.E64

Epichlorohydrin

887.E83

Ethylene dichloride

887.F48

Fibers

887.F63

Fluorides

887.F67

Fluorocarbons

887.F69

Fossil fuels

887.H3

Halocarbons

887.H4

Heavy metals

887.H46

Hexane

## Special types of environment

## Air pollution and its control

## Particular air pollutants and their control

## Other pollutants, A-Z -- Continued

887.H48	Hexylene glycol
887.H93	Hydrocarbons
887.I56	Inorganic compounds
887.L4	Lead
887.M34	Manganese
887.M37	Mercury
887.M4	Metals
887.O95	Ozone-depleting substances
887.P34	Peat
887.P45	Pesticides
887.P65	Pollen
887.P69	Polybrominated diphenyl ethers
887.P695	Polycyclic aromatic hydrocarbons
887.R3	Radioactive metals
887.S78	Sulfates
887.S82	Sulfur
887.T75	Trichloroethylene
887.V55	Vinyl chloride
887.V65	Volatile organic compounds
888.A-Z	Sources of pollution, A-Z
	Cf. TD899.A+ Waste control in special industries and plants
888.A53	Aerospace industries
888.A54	Agriculture
888.A56	Aluminum plants
888.A86	Asphalt plants
888.B74	Breweries
888.C4	Cement plants
888.C5	Chemical plants
888.C58	Coaling stations
888.C6	Coffee processing plants
888.C63	Construction industry
888.C64	Copper industry and trade
888.C65	Cotton gins
888.E43	Electric power-plants
888.F3	Factories
888.F45	Fertilizer industry
888.F6	Foundries
888.G37	Gas manufacture and works
888.H43	Heating plants
888.H9	Hydrochloric acid plants
888.M26	Machinery industry



- Special types of environment
  - Air pollution and its control
    - Sources of pollution, A-Z -- Continued
      - 888.M4 Metallurgical plants
      - 888.N8 Nuclear facilities
      - Nuclear power plants see TD888.E43
      - 888.O35 Oil sands extraction plants
      - 888.P38 Petroleum chemicals industry
      - 888.P4 Petroleum refineries
      - 888.P67 Power plants
      - 888.P73 Printed circuits industry
      - 888.P8 Pulp and paper mills
      - 888.R4 Reactor fuel reprocessing plants
      - 888.R48 Resource recovery facilities
      - 888.R62 Road construction, maintenance, and repair
      - 888.R66 Roofing industry
      - 888.S38 Sewage disposal plants
      - 888.S54 Ships
      - 888.S6 Solvents industry
      - 888.S7 Steam power plants
      - 888.S72 Steelworks
      - 888.S77 Sugar factories
      - 888.S8 Sulfuric acid plants
      - 888.W6 Wood industry. Lumber industry
        - Cf. TD888.P8 Pulp and paper mills
  - 889 Air pollution control equipment
    - Cf. TH7692+ Dust removal (by pneumatic suction, etc.)
  - 890 Measurement. Air sampling and analysis
    - For measurement or analysis of specific pollutants see TD884+
  - Noise and its control
    - 891 Periodicals, societies, congresses, etc.
    - 891.5 Directories
    - 892 General works
    - 892.5 Juvenile works
    - Special countries
      - United States
        - 893 General works
        - 893.3.A-Z By region or state, A-Z
        - 893.5.A-Z Other regions or countries, A-Z
        - 893.6.A-Z Special industries, facilities, activities, etc., A-Z
          - 893.6.A57 Airplanes
            - Cf. TL671.65 Aeronautical engineering
        - 893.6.B58 Blast furnaces
        - 893.6.B68 Bottling plants
        - 893.6.C45 Chemical plants

## Noise and its control

## Special industries, facilities, activities, etc., A-Z -- Continued

893.6.C6	Construction industry
893.6.C78	Crushed stone industry
893.6.D94	Dwellings
893.6.E4	Electric lines
893.6.F58	Flour mills
893.6.F64	Food industry
893.6.F65	Forge shops
893.6.G37	Gasworks
893.6.G7	Grain elevators
893.6.M3	Machine shops
893.6.M35	Materials handling
893.6.M43	Meat industry
893.6.M45	Metalwork
893.6.M5	Mineral industries
893.6.O34	Offices
893.6.P35	Paper industry
893.6.P47	Petroleum refineries
893.6.P55	Pipe industry
893.6.P68	Power plants
893.6.P74	Precast concrete industry
893.6.P75	Printing plants
893.6.Q35	Quarries and quarrying
893.6.R3	Railroads
893.6.S48	Sewage disposal plants
893.6.T4	Textile industry
893.6.T7	Transportation
893.6.T86	Tunneling
893.6.W37	Water treatment plants
893.6.W65	Woodworking industries
894	Noise measurement

## Industrial and factory sanitation

- Cf. HD3656+ Factory inspection
- Cf. HD7260+ Industrial hygiene (Administrative aspects)
- Cf. T55+ Industrial safety
- Cf. TS193 Plant housekeeping

895

## General works

## Industrial and factory wastes

- Cf. HD30.255 Environmental aspects of industrial management

896

Periodicals, societies, congresses, etc.

897

General works

897.5

General special

897.6

Industrial waste treatment facilities

Including centralized facilities

## Industrial and factory sanitation

## Industrial and factory wastes -- Continued

## Special regions or countries

## United States

897.7

## General works

897.75.A-Z

## By region or state, A-Z

897.8.A-Z

## Other regions or countries, A-Z

## Special topics

897.842

## Biodegradation

897.843

## Incineration

897.845

## Recycling

897.847

## Waste minimization

## Special wastes and their disposal

## Radioactive waste disposal

For municipal radioactive waste see TD812+

For municipal and industrial hazardous wastes see  
TD1020+

For temporary storage at the facility see TK9152.165

Cf. TK9152.17 Transportation of radioactive  
substances

897.85

## Periodicals, societies, congresses, etc.

898

## General works

## By region or country

## United States

898.118

## General works

898.12.A-Z

## By region or state, A-Z

898.13.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

898.14.A-Z

## Special topics, A-Z

For local see TD898.118+

898.14.B55

## Biodegradation

898.14.E36

## Economic aspects

898.14.E58

## Environmental aspects

898.14.E83

## Evaluation

898.14.G46

## Geochemistry

898.14.G47

## Geology

Cf. TD898.2 Disposal in the ground

898.14.G68

## Government policy

898.14.I57

## International cooperation

898.14.M35

## Management

898.14.M36

## Mathematical models

898.14.R57

## Risk assessment

898.14.S34

## Safety measures

898.14.S63

## Social aspects

- Industrial and factory sanitation
  - Industrial and factory wastes
    - Special wastes and their disposal
      - Radioactive waste disposal -- Continued
        - Radioactive waste sites
          - For local see TD898.118+
          - Cf. TK9152.2 Decontamination. Decommissioning of facilities
        - General works
        - Special topics, A-Z
          - Design and construction
          - Evaluation
      - Radioactive waste treatment facilities (General)
        - For local see TD898.118+
      - Special disposal methods
        - For temporary storage at the facility see TK9152.165
  - 898.15
  - 898.155.A-Z
  - 898.155.D47
  - 898.155.E83
  - 898.16
  - 898.17
  - 898.173
  - 898.175
  - 898.178
  - 898.179
  - 898.18
  - 898.2
  - 898.4
  - 898.6
  - 898.7.A-Z
  - 898.7.A46
  - 898.7.P48
  - 898.8.A-Z
  - 898.8.A76
  - 898.8.C67
  - 898.8.M47
  - 898.8.P45
  - 898.8.P64
  - 898.8.S65
  - 899.A-Z
  - 899.A44
- General works
  - Bituminization
  - Incineration
  - Transmutation
  - Vitrification
  - Stabilization. Solidification
  - Disposal in the ground
    - For local see TD898.118+
  - Disposal in the water
    - For local see TD898.118+
  - Disposal under the seabed
    - For local see TD898.118+
  - Special substances, A-Z
    - Alpha-bearing wastes
    - Plutonium
  - Other wastes, A-Z
    - Arsenic wastes
    - Corrosive wastes
    - Metal wastes
    - Pentachlorophenol
    - Polychlorinated biphenyls
    - Solvent wastes
  - Waste control in special industries, plants, processes, etc., A-Z
    - Cf. TD428.A+ Pollution of water by special industries, etc.
    - Cf. TD888.A+ Air pollution by special industries, etc.
  - Agriculture see TD930+
  - Aluminum industry

## Industrial and factory sanitation

## Industrial and factory wastes

Waste control in special industries, plants, processes, etc.,

A-Z -- Continued

899.A76	Arsenals
899.A8	Atomic power plants
899.A96	Automobile repair shops
899.B48	Beverage container industry
899.C25	Cadmium industry
899.C27	Camp sites, facilities, etc.
899.C3	Canneries
899.C5	Chemical industry
899.C55	Citrus processing plants
899.C57	Clay industries
899.C58	Cleaning and dyeing industry
899.C585	Coal liquefaction
899.C588	Coal preparation plants
899.C5885	Construction industry
899.C59	Copper industry
899.C6	Cotton industry
899.D3	Dairy plants. Milk plants
899.D46	Dental offices. Dental clinics
899.D5	Distilleries
899.F4	Feedlots
899.F47	Fertilizer industry
899.F5	Fisheries
899.F57	Fishery processing industries
899.F585	Food industry
899.F6	Foundries
899.F7	Fruit processing plants
899.G3	Gas industry
899.G47	Glass fiber industry
899.G63	Gold industry
899.G85	Gums and resins industry
	Health facilities see RA969.45
899.H65	Hotels
899.L32	Laboratories
899.L37	Laundries
899.M2	Machinery industry
899.M29	Manufactures
899.M4	Meat industry. Packinghouses. Slaughterhouses
899.M43	Metallurgical plants
899.M45	Metalworking and finishing industry
	Milk plants see TD899.D3
899.M47	Mineral industries
899.M5	Mines

## Industrial and factory sanitation

## Industrial and factory wastes

Waste control in special industries, plants, processes, etc.,

A-Z -- Continued

Nuclear power plants see TD899.A8

899.O54

Oil industries

Packinghouses see TD899.M4

899.P25

Paint industry and trade

899.P3

Paper industry

899.P37

Pesticides industry

899.P4

Petroleum industry

899.P45

Phosphate industry

899.P46

Phosphoric acid industry

899.P48

Photographic industry

899.P55

Plastics industry

899.P6

Potato chip industry

899.P65

Poultry industry

899.P69

Printed circuits industry

899.P7

Printing industry

899.R26

Railroads

899.R3

Reactor fuel reprocessing plants

899.R34

Refractories industry

899.R8

Rubber industry

Seafood processing see TD899.F57

899.S46

Service stations

899.S55

Shipbuilding industry. Shipyards

Slaughterhouses see TD899.M4

899.S68

Steam power plants

899.S7

Steelworks

899.S8

Sugar industry

899.T3

Tanneries

899.T4

Textile industry

899.T55

Tile industry

899.U73

Uranium industry

899.W3

Water treatment plants

899.W6

Wood industry

899.W65

Woodpulp industry

899.W73

Wrecking industry

## Sanitary engineering as applied to buildings

see TH6014+

(905)

General works

(909)

General special

(913)

House drainage

see TH6571+

(915)

Earth closets

see TD776

- Sanitary engineering as applied to buildings -- Continued
- (918) Sanitary inspection  
see RA565+
- Rural and farm sanitary engineering  
Including all small isolated plants for country and farmhouses, etc.  
For local see TD21+
- 920 General works
- 923 General special
- 927 Water supply  
For local see TD221+
- Sewage and refuse disposal and drainage  
For local see TD521+
- 929 General works
- Agricultural wastes
- 930 General works
- 930.2 Animal waste
- 930.3 Crop residues
- 930.4 Dairy waste
- Pesticide waste see TD1066.P47
- 931 Parks, recreation areas, campgrounds, etc.  
Cf. GV198.S3 Sanitation of organized camps  
Cf. RA604 Environmental health
- (935) Sanitary engineering of other isolated plants  
see TH6057+
- Low temperature sanitary engineering
- 940 General works
- 943 General special
- 947 Water supply
- 949 Sewage and refuse disposal and drainage
- (1015) Washhouses and public laundries  
see TH6057.L3
- Hazardous substances and their disposal  
Including both municipal and industrial hazardous wastes other  
than radioactive  
For municipal radioactive wastes see TD812+  
For industrial radioactive waste see TD897.85+
- 1020 Periodicals, societies, congresses, etc.
- 1024 Directories
- 1030 General works
- 1030.5 Juvenile works
- 1032 Handbooks, manuals, etc.  
By region or country  
United States
- 1040 General works
- 1042.A-Z By region or state, A-Z  
Subarrange each state by Table T4a

	Hazardous substances and their disposal
	By region or country -- Continued
1045.A-Z	Other regions or countries, A-Z
	Subarrange each country by Table T4a
1050.A-Z	Special topics, A-Z
	For local see TD1040+
1050.C57	Citizen participation
1050.C65	Classification
1050.C67	Cost control
1050.E58	Environmental aspects
1050.P64	Political aspects
1050.R57	Risk assessment
1050.S24	Safety measures
1050.T43	Technological innovations
1050.T73	Tracking
1050.W36	Waste minimization
1052	Hazardous waste sites (General)
	For local see TD1040+
1054	Hazardous waste treatment facilities (General)
	Including surface impoundments
	For local see TD1040+
	Special disposal methods
1060	General works
1061	Biodegradation
1062	Incineration
1063	Stabilization. Solidification
1064	Land disposal
	Including deep geologic disposal
1066.A-Z	Special substances, A-Z
1066.D45	Dense nonaqueous phase liquids
1066.G48	Glycols
1066.L57	Lithium
1066.M46	Metals
1066.O55	Oil
1066.O73	Organic compounds
1066.P47	Pesticides
1066.P64	Polychlorinated biphenyls



- Highway engineering. Roads and pavements  
 Cf. HD9717.5.R6+ Road construction industry  
 Cf. HE331+ Traffic engineering; economics of roads  
 Cf. QH545.R62 Environmental effects  
 Cf. TD888.R62 Air pollution
- Periodicals, societies, etc. By language of publication
- 1.A1 International or polyglot  
 1.A3-Z English  
 2 French  
 3 German  
 4 Other languages (not A-Z)  
 5 Congresses
- Exhibitions. Museums
- 6.A1 General works  
 6.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 7 Collected works (nonserial)  
 9 Dictionaries and encyclopedias  
 12 Directories
- History
- 15 General works  
 16 Ancient  
 17 Medieval  
 18 Modern to 1800  
 19 1800-  
 21-127 Country divisions (Table T1a modified)  
     Add country number in table to TE0  
     Class government publications with "General works"  
     Class special roads with "Local or special, A-Z" (or similar captions)  
     Class special roads limited to a particular province, city, etc. with the province, city, etc.
- America  
     North America  
         United States  
             For works on federal aid to highways see HE355+  
             Special roads not limited to one state or region. By name, A-Z
- 25.5.A-Z
- Biography
- 139 Collective  
 140.A-Z Individual, A-Z  
     e.g.  
 140.M3 MacAdam
- General works
- 144 Early to 1800  
 145 1800-  
 147 Elementary textbooks

	General works -- Continued
149	Juvenile works
151	Pocketbooks, tables, etc.
153	General special
155	Addresses, essays, lectures
175	Road and highway design
	Including drawings and designs
	Interchanges and intersections
176	General works
176.3	Left-turn lanes
176.5	Traffic circles
176.8	Motor vehicle scales
	Roadside development. Landscaping
177	General works
178	Vegetation
178.8	Rest areas
180	Specifications
183	Estimates, quantities, and costs
185	Records, timekeeping, etc.
	For accounts and accounting see HF5686.R6
191	Study and teaching
192	Highway research
195	Highway engineering management
	Materials for roadmaking (stone, etc.)
200	General works
203	General special
	Including road-marking materials
205	Testing and inspection. Laboratory manuals
	Location engineering
206	General works
	Soil surveys
	Including physical tests, analysis of subgrade soils, soil profiles, etc.
208	General works
208.5	Trafficability of soils
	Road surveys
209	General works
209.5	Aerial surveys
	Construction details
	Foundations
210	General works
	Soil stabilization
	Including soil compaction
	Cf. S593.23 Agriculture
	Cf. TA749 Earthwork
210.4	General works
210.5.A-Z	Special methods and materials, A-Z

	Construction details
	Foundations
	Soil stabilization
	Special methods and materials, A-Z -- Continued
210.5.B5	Bitumen
210.5.C3	Calcium chloride
210.5.F55	Fly ash
210.5.L5	Lime
210.5.S3	Salt
210.5.S6	Soil cement
210.8	Fills and embankments
211	Subgrade structure
212	Base course
212.5	Shoulders
213	Culverts and small bridges
	Cf. TF282 Railroad engineering
215	Drainage
216	Bridge approaches
	Maintenance and repair
	Cf. TD813+ Street cleaning
220	General works
220.3	Overlays
220.5	Snow and ice control on roads and highways
	Cf. TD868+ Control of snow and ice on streets
220.55	Roadside litter control
	Cf. TD813+ Street litter and its removal
220.63	Dust control
221	Road binders, dust preventives, etc., for unpaved roads
	Including bituminous materials
	Machinery, road rollers, etc.
223	General works
227	Catalogs
228	Safety and traffic control devices
	Cf. HE370.A+ Traffic regulations
	Cf. TE203 Road-marking materials
	Communication systems
	Including intelligent transportation systems
228.3	General works
228.37	Vehicular ad hoc networks
228.5	Low-volume roads
228.7	Frontage roads
	Country roads
	Cf. TE280+ Paths
229	General works
229.2	Farm roads
229.5	Forest roads
	Cf. SD389 Forestry

	Country roads -- Continued
229.8	Mountain roads
229.9	Scenic byways
	Special kinds of unpaved roads
230	Dirt roads. Earth and sand roads
233	Gravel
	Broken stone
235	General works
237	Stonebreaking for roads
239	Stonecrushers for road material
241	Telford roads
243	Macadam roads
244	Tarred roads (Construction)
245	Other varieties
	Including plank roads
247	Ice roads. Ice crossings. Ice bridges
	Pavements and paved roads
250	General works
251	Design
251.5	Performance
252	Specifications
253	Wood
255	Brick
	Stone
257	General works
259	Cobblestone
	Stone blocks
261	General works
263	Belgian
265	Oblong
	Bituminous pavements
	Cf. TE221 Road-binders, dust preventives, etc.
	Cf. TE244 Tarred roads (Construction)
266	Congresses
270	General works
273	Asphalt mixing machinery and plants
275	Asphalt and asphalt mixtures
276	Asphalt block
	Concrete roads and pavements
	Including reinforced concrete
278	General works
278.2	Joints
278.6	Prestressed concrete
278.8	Precast concrete
279	Streets
279.3	Driveways

## Pavements and paved roads -- Continued

## Pedestrian facilities

Cf. NA9074 Architecture

279.5

## General works

## Sidewalks. Footpaths. Flagging

Cf. TH4970 Garden walks

280

## General works

283

## Earth, gravel, cinder

285

## Wood

287

## Brick

289

## Stone

291

## Cement. Concrete

293

## Asphalt

295.A-Z

## Other, A-Z

298

## Curbs. Curbstones

301

## Bicycle paths and tracks

303

## Equestrian roads

304

## Trails

305

## Racetracks for automobiles (Construction)

(315-427)

## Laws and legislation

see class K

450

## Hauling tests. Traction tests

- Railroad engineering and operation
  - Cf. HE1001+ Economic aspects of railroads
  - Cf. TD893.6.R3 Noise control
- Periodicals and societies. By language of publication
  - 1 English
  - 2 French
  - 3 German
  - 4 Other languages (not A-Z)
  - 5 Congresses
- Exhibitions. Museums
  - 6.A1 General works
  - 6.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
  - 7 Collected works (nonserial)
  - 9 Dictionaries and encyclopedias
  - 12 Directories, etc.
    - For directories of U.S. railroads see HE2721
    - For directories of other railroads see HE2801+
    - For directories of supply dealers see TF355
    - For directories of purchasing agents see TF359
- History
  - 15 General works
  - 16 Antiquities
    - Including early curiosities of railroad development and horse railroads
  - 19 Nineteenth century
  - 20 Twentieth century
  - 21-127 Country divisions (Table T1a)
    - Add country number in table to TF0
    - Class here only technical works, including works on the physical plants of individual railroads
- Biography
  - For locomotive engineers see TJ603.5.A+
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early to 1850
  - 145 1850-
  - 146 Elementary textbooks
  - 147 Popular works
  - 148 Juvenile works
  - 149 Pictorial works
  - 151 Pocketbooks, tables, etc. (General)
  - 153 General special
  - 155 Addresses, essays, lectures
- Study and teaching. Research
  - America

	Study and teaching. Research
	America -- Continued
171	General works
173	United States
176	Canada
179	Latin America
180	Europe
181	Asia
182	Africa
183	Australia
190	Economics of location
	Class here only technical works
	Cf. HE1612+ Location, right of way, etc. (Economic aspects)
	Cf. TF215+ Railroad surveying (General)
193	Estimates, costs, etc.
195	Specifications
197	Model railways
	Safety measures see TF610
	Railway construction
200	General works
	Including reconnaissance, surveying, and location
203	General special
205	Railroad engineering (Fieldbooks, tables, etc.)
208	Preliminary operations
	Railroad surveying
210	General works
212	Reconnaissance
213	Preliminary surveying
213.5	Aerial photography in railroad surveying
214	Plotting, profiles, etc.
	Location
215	General works
216	Curves and turnouts
217	Transition spiral, etc.
	Earthwork
	Including rock cuttings
220	General works
222	Tables, calculations, etc.
	Excavating machinery, steam shovels, etc.
225	General works
226	Catalogs
	Tunnels and tunneling
230	General works
232	General special
	Including special methods of tunnels, e.g. Pressure tunneling
	Maintenance and operating of tunnels

	Railway construction
	Tunnels and tunneling
	Maintenance and operating of tunnels -- Continued
234	General works
235	Ventilation
236	Lighting
238.A-Z	Special tunnels, A-Z
	Permanent way. Superstructure. Roadway. Track
	Cf. TF530+ Maintenance and repair
240	General works
241	General special
243	Grades
244	Gauges
245	Drainage
248	Tracklaying machinery
	Details of the permanent way
250	Roadbed. Ballast
	Ties. Sleepers
252	General works
254	Wood
255	Iron and steel
256.A-Z	Other, A-Z
257	Tie plates
	Rails
258	General works
260	Section-books, tables, etc.
261	Rail fastenings (fishplates, bolts, etc.)
262	Continuous rails
263	Crossings
	Cf. HE1617+ Grade crossings
264	Turnouts and curves (Construction)
	For location of curves and field work see TF216
	Switches, frogs, etc. Points (English)
266	General works
267	Frogs
268	Guardrails
	Railway structures and buildings
	Cf. NA6310+ Architecture
270	General works
	Accessories to the permanent way
271	Track tanks
272	Ashpits, etc.
274	Y tracks
275	Turntables
276	Transfer tables (Chariots transbordeurs)
277	Fences, cattle guards, snow guards
	Viaducts, bridges, etc. see TG445



	Railway construction
	Railway structures and buildings
	Accessories to the permanent way -- Continued
282	Culverts, small bridges, cattle passes, etc.
(284)	Trestles
	see TG365+
	Buildings, etc., other than structures enumerated above
288	General works
290	Water columns, cranes, and pipes
292	Sand plants and bins
294	Coalsheds and coaling plants
296	Engine houses. Roundhouses
298	Shops
	Passenger depots, stations, and terminals
300	General works
302.A-Z	Special places, A-Z
	Freight yards and terminals
305	General works
308.A-Z	Special places, A-Z
315	Railway docks
320	Railway ferries
	Railway equipment and supplies
	General works
340	Periodicals, societies, etc.
345	Treatises
347	General special
	Including standardization
350	Railway machinery and tools
355	Directories of dealers and manufacturers
357	Catalogs of dealers and manufacturers
	Including reports, histories, etc. of individual firms
	Cf. TJ625.A+ Locomotives
359	Directories of purchasing agents
361	Inspection. Testing
363	Specifications
365	Railway patents
368	Electrical equipment
	Rolling stock and car building
	For rolling stock of special places and roads see TF21+
	For car service see TF600+
371	Periodicals
373	Dictionaries and encyclopedias
375	General works
	Including atlases
376	Railway shops and shop practice. Repair shops
	Cf. TJ680+ Locomotive shops
377	General special

## Railway equipment and supplies -- Continued

## Details of car construction

## Car trucks

- 380 General works
- 383 Wheels
- 386 Axles
- 389 Bearings and lubrication
- 391 Springs
- 393 Shock absorbers

## 400 Car bodies

## 410 Couplers

## 413 Draft gear

## Brake gear

## 415 General works

## Airbrakes

## 420 General works

## 425 Westinghouse

## 430 New York

## 440 Car furnishings

## Car sanitation, heating, lighting, and ventilation

## 445 General works

## Lighting

## 447 General works

## 449 Electric lighting

## 451 Drinking water

## 453 Air conditioning

## Varieties of cars

## Passenger cars

## 455 General works

## 456 Dome cars

## 457 Parlor cars

## 459 Sleeping cars

## 461 Dining cars

Cf. TF668.A1+ Service

## 463 Baggage cars

## 467 Mail cars

## Freight cars

## 470.A1 Periodicals, societies, congresses, etc.

## 470.A3-Z General works

## 475 Stock cars

## 477 Refrigerator cars

## 479 Coal and ore cars

## 481 Tank cars

## 485 Cabooses, tool cars, etc.

## 490 Derrick cars and wrecking cars

## Motorcars

## 494 General works

- Railway equipment and supplies
  - Varieties of cars
    - Motorcars -- Continued
- 495 Steam motorcars
- 497 Gasoline motorcars
- 498 Diesel motorcars
- 499 Gas-turbine motorcars
- Railway operation and management
  - For business administration see HE1621+
  - Periodicals and societies. By language of publication
    - For engineering and construction periodicals see TF1+
- 501 English
- 502 French
- 503 German
- 504 Other languages (not A-Z)
- 505 General works
- 506 Cold weather operation
- 507 General special
- Organization, etc., of staff and force
- 510 General works
- 512 General special
  - For wage tables, see HD4966.R1-.R45
- Accounting see HE2241
- 515 Classification of correspondence, maps, records, etc.
- 518 Education and training of employees
- Service rules and regulations
  - For regulations of particular branches of the service see TF530+
- 520 General works
- 522 Special roads
- Maintenance and repair of permanent way
- 530 General works
- Roadmasters' and trackmasters' regulations
- 535 General works
- 536 Special roads
- 537 Inspection. Testing
- 538 Roadmasters' and trackmasters' manuals, etc.
- 538.5 Track maintenance equipment
- 539 Damage by natural disasters and its control
- 541 Protection against sand. Removal of sand
- 542 Protection against snow. Removal of snow and ice
- 544 Removal of wrecks
- 546 Removal of weeds. Weed-burners, etc.
- 548 Ditches
- Trains
  - Including the movement of trains and cars
- 550 General works

	Railway operation and management
	Trains -- Continued
552	Train resistance
	Cf. TF962 Car resistance
	Train speed
553	General works
554	Tables
555	Trainload. Ton-miles and coal computations
556	Train running
	Trainmen's manuals, etc.
557	General works
(558)	Wage tables
	see HD4966.R45+
559	Train rules
561	Right-of-way
563	Train dispatching
565	Time schedules, etc., for making timetables
	For timetables themselves see HE1805
	Special kinds of trains
	For named trains and trains of special roads see TF21+
	Passenger
570	General works
573	Fast express
	Freight
580	General works
582	Piggyback trains
583	Unit trains
	Circus trains see GV1822
585	Other special kinds
	Terminal and yard management
590	General works
592	Switching of cars. Shunting
593	Making up trains
595	Engine house management. Roundhouse management
	Cars (Utilization and care)
	Cf. HE1821+ Railway economics
	Cf. TF371+ Car building
600	General works
	Car interchange systems. Car service associations
605	Periodicals, societies, etc.
606	General works
610	Safety measures, signals, etc.
	For airbrakes, etc., see TF420+
	Signaling
	Including telegraphic equipment
615	General works
617	General special

- Railway operation and management
- Signaling -- Continued
- 620 Tests of vision, color blindness, etc.
- 625 Hand signals, etc.
- Telegraph and telephone system. Radio and other electronic systems
- Cf. TK5569.T7 Train telegraph
- 627 General works
- 628 Special systems
- Including Bopp's
- 630 Block systems
- 635 Interlocking systems
- 638 Automatic train control
- 639 Other systems
- Including coded centralized traffic control
- 640 Catalogs of signaling appliances
- Railroad accidents see HE1779+
- Traffic operations
- 650 General works
- 652 Station management
- 653 Passenger traffic
- Cf. HE2561+ Economic aspects
- 654 Passenger tickets
- 656 Baggage
- 659 Express
- Freight
- 662 General works
- (663) Classification
- see HE2123 HE2311 etc.
- 664 Rate tables, etc.
- 666 Prorating and adjustment tables, etc.
- 667 Refrigerator service
- Dining car service
- 668.A1 Periodicals, societies, etc.
- 668.A2-Z General works
- Local and light railways
- For special places see TF21+
- 670 General works
- General special
- 673 General works
- 675 Narrow gauge railways
- For special places see TF21+
- 677 Industrial railways
- 678 Logging railways
- For special places see TF21+
- Mountain railways
- 680 General works

	Local and light railways
	Mountain railways -- Continued
682	Cable
	Cf. TF835 Street railways
684	Rack
686	Gravity
688.A-Z	Special railways. By place, A-Z
692	Atmospheric railways
693	Suspended railways
	Cf. TJ1385+ Cableways, telpherage
694	Single-rail railways
695	Miscellaneous and curious railways
	Municipal and street railways. Interurban railways
701	Periodicals, societies, etc.
703	Directories
	Exhibitions. Museums
704.A1	General works
704.A2-Z	By region or country, A-Z
	Subarrange each country by Table T4b
705	General works
707	General special
	Rapid transit question
	Cf. HE5351+ Interurban electric railways (Economic aspects)
710	General works
	Special places see TF721+
	Rolling stock, track, and equipment of street car systems
	see TF863+
721-827	Country subdivisions (Table T1a)
	Add country number in table to TF700
	For special subways see TF847.A+
	For special freight subways see TF851.A+
830	Horse railways
835	Cable railways
	Cf. TF682 Mountain railways
838	Compressed air railways
	Elevated railways
840	General works
841.A-Z	Special places, A-Z
	Underground railways. Subways
845	General works
847.A-Z	Special places, A-Z
	Freight subways
850	General works
851.A-Z	Special places, A-Z
	Electric railways
	For special places see TF1021+

- Electric railways -- Continued
- Periodicals and societies see TF701
- 855 General works
- 856 Juvenile works
- 857 General special
- Electrification of steam railroads
- 858.A1 Periodicals. Societies. Serials
- 858.A2 Congresses
- 858.A4 General works
- 858.A5-Z Special countries, A-Z
- 859.A-.Z4 Special cities (Terminals, etc.), A-Z
- 859.Z5A-.Z5Z Special railroads, A-Z
- Construction
- 863 Power production and distribution
  - Cf. TK1191+ Electric powerplants
- 865 Roadbed
- Track
- 870 General works
- 872 Rails
- 873 Rail bonds, etc.
- 875 General special
- Power transmission systems
- 880 General works
- 885 Trolley (overhead wiring)
- 890 Third-rail
- 895 Underground conduits
- 900 Other systems
- 912 Losses in transmission. Stray currents
- Cars. Street cars. Interurban cars
- 920 General works
- 925 Car wiring and equipment
- 930 Controllers
- 935 Railway motors
- 940 Car lighting, headlights, etc.
- 945 Car heating
- 947 Safety devices
  - Including car fenders
- 949 Details of car construction
- 949.A9 Axles
- 949.B7 Brakes
- 949.G4 Gear wheels
- 949.W5 Wheels
- Supplies
- 950 General works
- 951 Directories
- 952 Catalogs
- Operation and management

	Electric railways
	Operation and management -- Continued
960	General works
962	General special
	Including cost of operation, car resistance
	Cf. TF552 Train resistance
965	Motormen's manuals
	For airbrake instructions see TF420+
	Service rules and regulations
967	General works
968	Special companies
970	Freight service
975	Electric locomotives
	Cf. TN337 Electric mine locomotives
980	Electro-diesel locomotives
1021-1127	Electric railways. Special countries (Table T1a)
	Add country number in table to TF1000
	Class here technical descriptions of special systems
	High speed ground transportation
1300	Periodicals, societies, serials, etc.
1305	Congresses
1315	History
1321-1427	Special countries (Table T1a)
	Add country number in table to TF1300
	Biography
1439	Collective
1440.A-Z	Individual, A-Z
1450	General works
1455	Juvenile works
1460	General special
	Construction (General)
1470	General works
1480	Power supply
1490	Guideways
	Operation and management (General)
1500	General works
1510	Signaling
1520	Communications
	Special systems
1540	Improved passenger train (IPT)
	Tracked levitated vehicle (TLV)
1560	General works
1580	Tracked air cushion vehicle (TACV)
1600	Magnetic levitation vehicle (MAGLVE)
1620	Tube vehicle system (TVS)



	Bridge engineering
	Periodicals and societies. By language of publication
1	English
2	French
3	German
4	Other languages (not A-Z)
5	Congresses
	Exhibitions. Museums
6.A1	General works
6.A2-Z	By region or country, A-Z
	Subarrange each country by Table T4b
7	Collections
9	Dictionaries and encyclopedias
12	Directories
	History
15	General works
16	Ancient
17	Medieval
18	Modern
19	Nineteenth century
20	Twentieth century
21-127	Country divisions (Table T1a modified)
	Add country number in table to TG0
	Class here special bridges
	America
	North America
	United States
25.A-Z	Special places and special bridges, A-Z
	e.g.
25.N5A2	New York. Report of Commissioner of Bridges
25.N53	New York. Brooklyn Bridge (Suspension)
25.N57	Niagara Falls. Suspension Bridge
25.N58	Niagara Falls. Cantilever Bridge
25.O43	Old Saybrook (Connecticut). New Baldwin Bridge
25.S15	St. Louis Bridge (Steel arch)
25.W3	Washington, D. C. Aqueduct Bridge
	Canada
27.A-Z	Special places and special bridges, A-Z
	e.g.
27.M82	Montreal. Victoria Bridge (Tubular)
	Europe
	Great Britain
64.A-Z	Special places and special bridges, A-Z
	e.g.
64.B86	Britannia Bridge, Menai Strait (Tubular)
(64.F7)	Forth Bridge
	see TG64.S68

	Country divisions
	Europe
	Great Britain
	Special places and special bridges, A-Z -- Continued
64.L84	London. Tower Bridge
64.M65	Monmouth (Wales). Monnow Bridge
64.S68	South Queensferry (Scotland). Forth Bridge
	France
72.A-Z	Special places and special bridges, A-Z
	e.g.
72.P23	Paris. Alexander III Bridge
130.A-Z	Special companies (History, description, etc.), A-Z
	Biography
139	Collective
140.A-Z	Individual, A-Z
	General works
144	Early to 1800
145	1800-
147	Elementary textbooks
147.5	Popular works
148	Juvenile works
149	Pictorial works
151	Pocketbooks, tables, etc.
153	General special
155	Addresses, essays, lectures
157	Catalogs of bridge building companies
160	Atlases, plans, etc.
170	Study and teaching
(215-255)	Bridge legislation and laws
	see class K
	Structural analysis as applied to bridges
	Including loads, stresses, and strains
260	General works
265	Structural dynamics. Vibration
267	Tables, calculations, etc.
270	Graphic statics in bridge engineering
	Bridge design and drafting
	Cf. TG160 Plans
300	General works
301	Pin proportioning
302	Earthquake effects
303	Wind pressure
304	Snow and ice loads
305	Bridge testing
307	Models of bridges
310	Bridge specifications
313	Bridge estimates. Quantities and costs

315	Bridge erection, superintendence, maintenance and repair
320	Bridge foundations
325	Abutments and retaining walls for bridges
325.6	Floors
326	Bridge details
	Including bearings, etc.
	Special types of bridges
	Arched bridges
327	General works
330	Masonry bridges
	Concrete bridges
335	General works
340	Reinforced concrete bridges
	Beam and girder bridges
	Including the use of beams and girders in bridges
350	General works
355	Continuous girders
	Cf. TG413+ Continuous girder bridges
360	Plate girders
362	Box girders
	Trestles
365	Wood
367	Concrete and stone
370	Iron
	Truss bridges
375	Wood
380	Iron and steel
385	Cantilever bridges
390	Tubular bridges
400	Suspension bridges
405	Cable-stayed bridges
410	Metal arches and metal arch bridges
	Continuous girder bridges
413	General works
414	Reinforced concrete bridges
416	Metal bridges
418	Prefabricated bridges
	Cf. UG335 Military bridges
	Ice crossings, ice bridges, see TE247
	Bridges for special uses
420	Movable bridges
	Including drawbridges and swing bridges
425	Highway bridges
428	Footbridges
430	Park and ornamental bridges
435	Ferry bridges

TG

BRIDGE ENGINEERING

TG

Bridges for special uses -- Continued

445

Railway bridges

For special places see TG21+

Cf. TF282 Culverts, etc.

450

Pontoon bridges

Cf. UG335 Military bridges

Military bridges see UG335

470

Bridge accidents

## Building construction

Cf. TA630+ Structural engineering

## Periodicals and societies. By language of publication

- 1 English
- 2 French
- 3 German
- 4 Other languages (not A-Z)

## 5 Congresses

## Exhibitions. Museums

## 6.A1 General works

## 6.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

## 7 Collected works (nonserial)

## 9 Dictionaries and encyclopedias

## 11 Builders' and contractors' bulletins

Including prices, permits, etc.

## Directories of building supply companies, builders, and contractors

## 12 General works

## United States

## 12.5 General works

## 13.A-Z By region or state, A-Z

## 13.2.A-Z Other regions or countries, A-Z

## History and description

## 15 General works

## 16 Ancient

Including primitive construction

## 17 Medieval

## 18 Modern to 1800

## 19 1801-

## 21-127 Country divisions (Table T1a)

Add country number in table to TH0

## Biography

## 139 Collective

## 140.A-Z Individual, A-Z

## General works

## 144 Early to 1850

## 145 1850-

## 146 Elementary works

## 148 Popular works

## 149 Juvenile works

## 151 Pocketbooks, tables, etc.

Cf. TA151 Engineering pocketbooks

Cf. TA685 Iron and steel construction

Cf. TH434+ Estimates, quantities and costs

- General works -- Continued
- 153 General special  
Including dangerous structures, safety of exit, moving of  
structures, cold weather conditions
- 155 Addresses, essays, lectures
- 159 Building as a profession
- Study and teaching
- 165 General works
- 166 Examinations, questions, etc.  
Special schools  
United States
- 210 General works
- 211 Correspondence schools
- 213.A-Z Other countries. By country and city, A-Z
- Research
- 213.5 General works
- 213.7.A-Z By region or country, A-Z
- Communication of building information
- 215 General works
- 216 Information services
- (219-255) Building laws, legislation, etc.  
see class K
- 257 Patents
- 350 Engineering of the subdivision  
Cf. TD160+ Planning and laying out of cities
- The building site  
Cf. NA2540.5 Site planning (Architecture)  
Cf. TK4399.B8 Electric lighting
- 375 General works
- 380 Landscape construction by builders
- 383 Prevention of soil erosion
- 385 Building layout
- 420 Building standards
- 425 Specifications (General)  
For specifications for special types of building see  
TH4311+
- 431 Drawings  
Including how to read plans  
Cf. T379 Blueprint reading  
Cf. TH2031 General details
- (432) Bookkeeping, etc. for the builder  
see HF5686.B7
- Estimates. Measurements. Quantities and cost
- General works
- 434 Early to 1890
- 435 1890-

- Estimates. Measurements. Quantities and cost -- Continued
- 437 General special  
Including data processing
- Management of the construction site. Superintendence of building construction
- 438 General works
- 438.13 Building information modelling
- 438.15 Cost effectiveness
- 438.2 Quality control
- 438.4 Scheduling
- 439 Building inspection
- 441 Building failures, errors, defects, etc.  
Cf. TH9025+ Protection of buildings
- 443 Building accidents and their prevention
- Maintenance and repair see TH3301+
- 447 Wrecking
- 449 Salvaging
- 451.A-Z Building companies, A-Z  
Including circulars, prospectuses, etc.
- 453 Building performance
- 455 Catalogs of building supplies (General)  
Cf. TH1655 Metalwork  
Cf. TH2055 Building fittings
- Architectural engineering. Structural engineering of buildings  
Cf. TH1111 Wooden buildings
- 845 Treatises
- 846 Elementary textbooks
- 851 Pocketbooks, tables, etc.
- 860 Modular coordination  
Cf. NA2685+ Drafting  
Cf. NA2750+ Design
- 880 Sustainable buildings. Sustainable construction  
Including building while following sustainable construction methods  
For works on ecological houses see TH4860  
Cf. NA2542.36 Architecture
- 891 Wind-pressure
- 893 Rain loads
- 895 Snow loads
- Insulation see TH1715+
- Architectural acoustics see NA2800
- Soundproof construction see TH1725
- Construction equipment in building  
Including machinery used in building construction  
Cf. TJ793.2 Internal combustion engines for construction equipment
- 900 General works

	Construction equipment in building -- Continued
915	Tools and implements (General)
	Cf. TH5618 Carpenters' tools
	Cf. TH6299 Plumbers' tools
	Systems of building construction
	Cf. TA401+ Building materials
1000	Industrialized building
	Cf. TH1098 Prefabricated and portable buildings
	Fire-resistive or fireproof building construction
	Cf. TH9057+ Lightning rods
	Cf. TH9111+ Fire prevention
	Cf. TP265+ Chemistry of fire and fire prevention
1061	Periodicals, societies, etc.
1065	General works
1069	General details
	Including fire doors and shutters, wire glass windows, etc.
	For fire escapes see TH2274
	Systems of fireproofing and special materials
	Including catalogs
1073	Wood and other organic material
	Including impregnated wood, fire-retardant coatings
1074	Fire resistant plastics
1074.5	Fire resistant polymers
1075	Asbestos
	Earthenware, brick, tile, terra-cotta
	Including combinations with steel, etc.
1077	General and solid forms
1083	Hollow earthenware
1087	Cement and concrete
	Including reinforced concrete
	Cf. TH1461+ Concrete building construction
1088	Reinforcing materials
1088.5	Smoke control systems
1088.56	Steel
1089	Tile-concrete combination systems
	Tests of fire-resistant construction (General). Fire testing
	Including artificial tests
	For tests of special systems see TH1099
	Cf. TH9446.3+ Fire testing of materials
1091	General works
1092	Tests of building materials
1093	Tests in fires
	General conflagrations, not artificial tests
	Earth movements and building. Subsidences, etc.
1094	General works



- Systems of building construction
  - Earth movements and building. Subsidences, etc. --
    - Continued
- 1095 Earthquakes and building
  - Cf. TA654.6 Earthquake engineering
  - Cf. TA658.44 Earthquake resistant design
- 1095.5 Construction on contaminated sites
- 1096 Stormproof construction
- 1096.5 Vertical evacuation structures
- 1097 Bombproof construction. Bombproof shelters. Fallout shelters
  - Cf. TH7392.A8 Heating and ventilation of atomic bomb shelters
- Waterproof construction see TH9031+
- 1098 Prefabricated and portable buildings
  - Cf. NA8480 Architecture
- 1099 Air-supported structures
- 1100 Lightweight construction
- 1101 Wood building construction
  - For floor framing see TH2311
  - For roof framing see TH2393
  - For scaffolding see TH5281
  - For centering and centers see TH5591
  - For carpentry and joinery see TH5601+
  - Cf. TA666+ Wooden construction (General)
- 1111 Architectural engineering of wooden buildings
- Architectural woodwork
  - Cf. TH8581+ Decorative woodwork
- 1151 General works
- 1155 Catalogs
- Masonry building construction
  - Cf. TA670+ Masonry construction (General)
  - Cf. TH5311+ Practical masonry
- 1199 General works
- 1201 Stone building construction
  - For stone construction (General) see TA676
  - For artificial stone building construction see TH1451
  - For stonemasonry and stonecutting see TH5401+
- 1301 Brick building construction
  - For brick construction (General) see TA679
  - For bricklaying see TH5501+
- (1375) Terra-cotta and hollow tile building construction
  - see TH1077+
- 1421 Pisé, earth-wall or pressed-earth building construction
- 1431 Ice and snow building construction
- 1451 Artificial stone building construction
- Concrete building construction. Cement and stucco
  - For concrete construction (General) see TA680+

## Systems of building construction

Concrete building construction. Cement and stucco --

Continued

1461

General works

1465

Specifications

1491

Concrete-block building construction

1498

Precast concrete construction

1501

Reinforced concrete construction

For reinforced concrete construction (General) see  
TA682.92+For reinforced concrete fireproof building construction  
see TH1087

1550

Staff building construction. Papier mâché, etc.

1555

Fiber building boards

Cf. TH1715+ Insulation

1560

Glass construction

Cf. TA450 Glass (Structural material)

Cf. TH8251+ Glazing

Iron and steel building construction

For iron and steel construction (General) see TA684+

Cf. TH4818.S73 Steel house construction

General works

1610

Before 1890

1611

1890-

1615

Juvenile works

1619

Estimates

1621

Pocketbooks, tables, etc.

1625

Catalogs of buildings

Forms of construction

1635

Space frame structures

Architectural metalwork. Sheet metal, castings, etc.

For gratings see TH2273

1651

General works

1655

Catalogs (General)

Special materials

1675

Metal sheathing. Metal lathing

Reinforcing materials in fireproof building construction

see TH1088

Insulation and insulating materials

Including thermal properties of walls

Cf. TJ163.26+ Energy conservation

Cf. TP490+ Refrigeration

1715.A1

Periodicals, societies, etc.

1715.A2-Z

General works

1718

Cellulose insulation

1719

Sealing. Airtight construction

1720

Sheathing papers

	Systems of building construction -- Continued
1725	Soundproof construction. Noise in buildings Cf. NA2800 Architectural acoustics
1727	Acoustical materials
	Details in building design and construction
2025	General works
2031	Structural drawings Cf. TH431 Drawings (General)
2055	Catalogs of building fittings (General) Cf. TH1155 Architectural woodwork Cf. TH1655 Architectural ironwork Cf. TH6010+ Building fittings and their installation
2060	Joints in buildings
2101	Foundations Including works from the engineering standpoint Cf. TH2221 Foundation walls Cf. TH5201 Practical construction
2140	Piers
	Arches and vaults
2150	General works
2160	Vaults
	Domes Cf. TH2416+ Shell roofs
2170	General works
2170.5	Concrete domes
2170.52	Geodesic domes
2170.7	Masonry domes
2170.85	Wooden domes
2180	Towers
	Walls Cf. TH5311+ Masonry
2201	General works
2221	Foundation walls
	Walls above surface
2231	General works
	Exterior walls
2235	General works
2238	Curtain walls. Cladding
2238.5	Siding
2238.7	Exterior insulation and finish systems
2239	Interior walls
	Special materials
2243	Brick walls
2244	Clapboard walls
2245	Concrete walls
2247	Sheet metal walls Cf. TH1651+ Architectural metalwork

## Details in building design and construction

## Walls

## Walls above surface

## Special materials -- Continued

2249

## Stone walls

## Wall details

2251

## General works

2251.2

## Balconies

2251.5

## Veneers

## Other special accessories

## Columns. Capitals

2252

## General works

2253

## Catalogs

2255

## Abutments

## Building-integrated photovoltaic systems see TK1087

2258

## Fixed ladders

2259

## Ramps

## Window and door openings and their fittings

Including lintels, plate-bonds, sills, reveals, caps, trimmings

2261

## General works

2264

## Window openings

2265

## Bay and bow windows

## Windows and doors and their fittings

Cf. TH1069 Fire doors and shutters

Cf. TH1155 Woodwork catalogs

Cf. TH8251+ Glazing

Cf. TH9720+ Burglar-proof construction

2270

## General works

2271

## Catalogs of door and window fittings

2272

## Sashes. Frames

2273

## Gratings. Window guards

2274

## Fire escapes and fittings

2275

## Windows

For skylights see TH2486+

2276

## Shutters, blinds, screens, and other window fittings

## Doors. Sliding and folding doors. Screen doors. Fire doors

2278

## General works

2279

## Door fittings. Locks, knobs, etc.

## Chimneys and flues

Cf. TH4591 Chimneys for powerplants

Cf. TJ330+ Boiler plant engineering

2281

## General works

2284

## Smoky chimneys and their remedy

Cf. TD884 Smoke prevention

2285

## Soot removal

## Fireplaces see TH7421+

## Details in building design and construction

## Chimneys and flues -- Continued

2288

## Mantelpieces

Cf. TH1151+ Architectural woodwork

## Framing (House framing, etc.)

Cf. TH1101 Wood building construction

Cf. TH1610+ Iron and steel building construction

2301

## General works

2311

## Floor framing

Cf. TH2521+ Floors and flooring

## Roof framing, roofs and roofing

Cf. TH5619 Steel square and its uses

2391

## General works

2392

## Roof trusses

2393

## Roof framing. Rafters, etc.

2397

## Special tools and appliances

Including rafter gages

2398

## Rafter tables, etc.

## Roofs

2401

## General works

2404

## Retractable roofs

2405

## Mansard roofs

2407

## Saddle roofs

2409

## Flat roofs

## Shell roofs

2416.A1

Periodicals, societies, etc.

2416.A3-Z

General works

2417

Suspension roofs

## Roofs for special parts of the building

2421

General works

2423

Bay window roofs

2425

Porch and veranda roofs

## Roofing

2430

Periodicals, societies, congresses, etc.

2431

General works

2433

Catalogs of roofing (General)

2435

Thatch roofing

2438

Board roofing

2441

Shingle roofing

Stone roofing

2444

General works

2445

Slate roofing

2446

Concrete roofing

2447

Plastic roofing

2448

Tile roofing

2449

Textile roofing

Composition roofing

## Details in building design and construction

## Roof framing, roofs and roofing

## Roofing

## Composition roofing -- Continued

2450

General works

2451

General special

Including tar, felt, gravel, slag, etc.

2452

## Single-ply roofing

## Metal roofing

Cf. TH1651+ Architectural woodwork

Cf. TS600+ Roofing catalogs

2454

General works

2455

Tin roofing. Tin shingling

2457

Iron and steel roofing

2458

Lead and copper roofing

2459

Aluminum roofing

## Roof details

Cf. TH1651+ Architectural woodwork

Cf. TH2433 Roofing catalogs

2481

General works

## Cornices and moldings

Cf. TH1151+ Architectural woodwork

Cf. TH2553 Interior cornices and moldings

2482

General works

2483

Catalogs

## Skylights and ventilators

2486

General works

2487

Skylights

(2489)

Ventilators

see TH7683.V4

2491

Hatchways. Scuttles

2493

Gutters, eave troughs, down spouts, and conductors

2495

Finials and bannerets. Vanes

## Floors and flooring

For floors and flooring in special types of buildings, see the type  
of building, e.g. TH4534 Packinghouses

Cf. TH2311 Floor framing

Cf. TH8541+ Tile

2521

General works

## Flooring

For carpets, rugs, etc. see TS1772+

2525

General works

2528

Maintenance and care

2529.A-Z

Special types. By material, A-Z

2529.C6

Concrete (Nonstructural)

2529.E27

Earth

Linoleum see TS1779.L5

## Details in building design and construction

## Floors and flooring

## Flooring

## Special types. By material, A-Z

2529.M4

Metal

2529.P5

Plastic

Including asphalt and vinyl

2529.S7

Stone

Tile (Ceramic) see TH8541+

2529.W6

Wood. Parquetry

## Ceilings and centerpieces

Cf. NA2950 Architecture

Cf. TH8120+ Plastering

2531

General works

2533.A-Z

Special types, A-Z

2533.S88

Suspended

2533.W66

Wooden

## Partitions

2541

General works

2544

Shoji screens

2547

Wainscots

2553

## Moldings and cornices (Interior)

Cf. TH1155 Woodwork catalogs

Cf. TH2482+ Exterior cornices

Cf. TH8581+ Decorative woodwork

2555

## Shelving

For mantelpieces see TH2288

3000.A-Z

## Special rooms, A-Z

3000.A74

Areaways

3000.A86

Attics

3000.B36

Basements

3000.B38

Bathrooms

3000.C55

Closets

3000.C73

Crawl spaces

3000.K58

Kitchens

3000.L63

Lofts

3000.R43

Recreation rooms

3000.S85

Sunspaces

## Maintenance and repair

Cf. TH4817+ Dwellings

Cf. TH6013 Maintenance of equipment

Cf. TX323 Care of the house (Home economics)

3301

General works

3311

General special

## Maintenance

3351

General works

3361

General special

## Maintenance and repair -- Continued

## Repair. Rebuilding. Remodeling

3401

General works

3411

General special

## Buildings: Construction with reference to use

Including specifications and construction of individual or named buildings

## Public buildings

Cf. NA4170+ Architecture

4021

General works

(4161)

Monuments, memorial arches

see NA9320+

(4171)

Mausoleums, etc.

see NA6120+

4221

Churches

Cf. NA4790+ Architecture

4224

Pagodas

Other public buildings, see TH4755+

## Commercial buildings. Office buildings

Cf. NA6210+ Architecture

4311

General works

4315

Estimates. Measurements. Quantities and costs

(4411)

## Transportation buildings

see NA6300+ TA1225

(4421)

## Railway stations

see NA6310+

(4431)

## Dock buildings

see TC355

(4441)

## Ferry houses

see NA6330

## Storage buildings

4451

Warehouses

Cf. NA6340+ Architecture

4461

Grain elevators

Cf. NA6350 Architecture

Cf. TH4498 Bins (General)

Cf. TJ1415+ Grain-handling machinery

4471

Coal-handling plants

Cf. TH4498 Bins (General)

Cf. TJ1405 Coal-handling machinery

4481

Icehouses (Commercial)

Cf. NA6360 Architecture

4485

Lumberyards, sheds, etc.

4498

Bins (General)

Cf. TH4461 Grain elevators

Cf. TH4471 Coal-handling plants



## Buildings: Construction with reference to use

## Storage buildings -- Continued

4499

## Other storage buildings

Cf. NA6290+ Architecture

## Factories and mills. Industrial plants

Cf. NA6396+ Architecture

Cf. TN675.5+ Metallurgical plants and furnaces

Cf. TS186 Factory buildings

4511.A1

## Periodicals, societies, etc.

4511.A2-Z

## General works

4516

## General drawings of factory construction

4518

## Underground factories

4521

## Textile mills

4522

## Clothing factories

4524

## Chemical plants

4526

## Food processing plants

4531

## Breweries

4532

## Distilleries

4533

## Electronics plants

4534

## Packinghouses

4536

## Paper and pulp mills

4536.5

## Printing plants

4537

## Rolling mills

4538

## Water treatment plants

4541

## Other special factories and mills

4561

## Mine buildings and other structures

4571

## Refineries

## Power plants

4581

## General works

4591

## Chimneys. Smokestacks

Cf. TD884 Smoke prevention

Cf. TH2281+ Chimneys (General)

Cf. TJ330+ Boiler plant engineering

## Educational buildings

(4621)

## Schools

see LB3205+ NA6600+

(4631)

## Libraries

see Z679

(4641)

## Art museums and galleries

see N450+

(4651)

## Exhibition buildings

see NA6750; T391+

4652

## Research buildings. Laboratories

Cf. NA6751 Architecture

4655

## Radio stations

4656

## Television stations

## Buildings: Construction with reference to use -- Continued

- (4661) Hospitals
  - see RA960+
  - For psychiatric hospitals see RC438.92+
- 4711 Recreation buildings. Park buildings
  - Cf. NA6800+ Architecture
- 4714 Stadiums
- Other public buildings
- 4755 Restaurants
  - Cf. NA7855+ Architecture
- 4758 Embassy buildings
- 4761 Baths
  - Cf. NA7010 Architecture
  - Cf. RA605+ Public health
- 4763 Swimming pools
- (4765) Public comfort stations
  - see RA607
- 4800 Clubhouses
  - Cf. NA7910+ Architecture
- Houses. Dwellings
  - Cf. NA7100+ Architecture
  - Cf. TK7881.25 Home automation
- 4805 Periodicals, societies, congresses, etc.
  - History and description
- 4808 General works
- 4809.A-Z By region or country, A-Z
- 4811 General works
- 4811.5 Juvenile works
- 4812 General special
- 4813 Handbooks, manuals, etc.
- 4814 Research
- 4815 Amateur construction manuals
- 4815.4 House construction contracting
  - Including hiring a contractor
- 4815.5 Standards. Specifications
- 4815.8 Estimates. Measurements. Quantities and costs
- Remodeling
  - General works
- 4816 Access for people with disabilities. Barrier-free design
- 4816.2 Additions
- 4816.3.A-Z Special rooms, A-Z
  - Attics
  - Basements
  - Bathrooms
  - Bedrooms
  - Children's rooms
  - Kitchens

## Buildings: Construction with reference to use

## Houses. Dwellings

## Remodeling

Special rooms, A-Z -- Continued

4816.3.L57

Living rooms

Office decoration see NK2195.O4

4816.3.O34

Offices

## Maintenance and repair

4817

General works

4817.3

Amateurs' manuals

4817.5

## State of repair. House buyers' guides

Cf. HD1379 Popular guides in real estate business

4818.A-Z

## Construction in special materials, A-Z

4818.A3

Adobe. Earth

4818.B3

Bamboo

4818.B7

Brick

4818.C6

Concrete blocks

Earth see TH4818.A3

4818.M37

Masonry

4818.P3

Paperboard

4818.P53

Plaster

4818.P7

Precast concrete

4818.R4

Reinforced concrete

4818.S55

Sod

4818.S6

Soil cement

4818.S73

Steel

4818.S75

Stone

4818.S77

Straw

4818.T57

Tires

4818.W6

Wood

4819.A-Z

## Special methods of construction, A-Z

4819.E27

Earth sheltered houses

4819.M6

Mobile homes

Cf. TL297+ Trailers

Cf. TX1100+ Mobile home living

4819.P7

Prefabricated

4819.S5

Slab-on-ground

## Special types of houses

Cf. TH4920 Farmhouses

4820

Apartment houses

4822

Blackhouses

4825

Terrace houses

4835

Summer homes

4840

Log cabins

4850

Country homes

4860

Ecological houses

4870

Yurts

## Buildings: Construction with reference to use

## Houses. Dwellings

## Special types of houses -- Continued

4880 Fishing lodges

4885 Tree houses

4890 Other shelters (not A-Z)

## Farm buildings

Cf. NA8200+ Architecture

Cf. S770+ Agriculture

4911 General works

4916 Handbooks, tables, etc.

4920 Farmhouses

Cf. NA8208+ Architecture

4930 Barns. Poultry houses

4935 Silos

4940 Machine-tractor stations

## Minor buildings. Fences, gates, etc.

4955 General works

4960 Garages. Carports

Cf. NA8348 Architecture

## Garden structures

Including building of structural elements for landscape construction

4961 General works

4961.5 Barbecues

4962 Garden toolsheds

4963 Gazebos

4965 Fences, gates, etc.

4967 Playhouses, Children's

Cf. TH4885 Tree houses

4970 Terraces, patios, decks, garden walks, etc.

Cf. NA8375 Architecture

4975 Privies. Outhouses

Cf. TD775 Sewage disposal

4977 Fountains

Cf. NA9400+ Architecture

## Construction by phase of the work (Building trades)

For works from the engineering standpoint, see TH1101+

5011 General works

5101 Earthwork and excavation in building

Including operations, tools, etc.

5201 Foundation work in building

Cf. TA775+ Foundations (General engineering)

## Temporary structures in building

5280 General works

## Construction by phase of the work (Building trades)

## Temporary structures in building -- Continued

5281

## Scaffolding in building. Shoring. Staging

Cf. TA682.44 Formwork for concrete construction

Cf. TH5591 Centering

## Masonry in building

Class here practical methods, operations, tools, etc.

Cf. TA425+ Masonry materials

Cf. TA670+ Masonry construction (General)

Cf. TH1199+ Masonry building construction  
(Engineering)

5311

## Treatises

5313

## Elementary manuals

5317

## Addresses, essays, lectures

5321

## General special

5330

## Estimates, quantities and cost measurements, etc.

5371

## Pointing and stucco

## Stonemasonry and stonecutting

For stone building construction see TH1201

For walls, design, etc. see TH2201+

5401

## General works

5411

## Elementary manuals

5421

## General special

5440

## Tools for stonemasons and stonecutters

## Bricklaying in building

For brick building construction see TH1301

For walls, design, etc. see TH2201+

5501

## General works

5511

## Elementary manuals

5520

## Cleaning of masonry, stone, brick, etc.

(5551)

## Cement and concrete work

see TA680+

5591

## Centering of arches

For scaffolding see TH5281

## Carpentry and joinery

Cf. TH1101 Wood building construction

Cf. TS840+ Woodworking

5601

## Periodicals

## General works

5603

## Early to 1800

## 1800-

5604

## General works

5605

## Graphic treatises

Plates or drawings, with text subordinate

5606

## Beginners' manuals. Elements

5607

## Popular works. Home carpentry

## Construction by phase of the work (Building trades)

## Carpentry and joinery

## General works -- Continued

5608 Pocketbooks and tables. Handbooks and compilations of rules

5608.5 Examinations, questions, etc.

5608.7 General special

5608.8 Vocational guidance

5609 Specifications

5611 Drawing and drawings for carpentry and joiner

## Mathematics

5612 General works

5613 Slide-rule calculations in carpentry and joinery

Estimates, quantities and cost, measurements, etc.

5614 Before 1850

5615 1850-

5618 Tools for carpenters and joiners

Including catalogs

5619 The steel square and its uses

## Finish carpentry

5640 General works

## Joinery

5662 General works

5663 Elementary manuals

## Stairbuilding

Including iron, wood, and stone

5667 General works

Stair and handrail joinery. Wooden stairbuilding

5670 General works

## Stair joinery

5671 General works

5673 Tables of treads and risers

Handrail joinery. Stair railings

5675 General works

5677 Tools and appliances for handrail joinery

5680 Catalogs

5691 Mitering

For exterior moldings see TH2482+

For interior moldings see TH2553

5695 Trim carpentry

## Metalworking

Cf. TH1651+ Architectural metalwork

5701 General works

Steel-girder riveting, etc. see TA891

- Building fittings and their installation
  - Including mechanical equipment
  - Cf. TH2055 Catalogs of building fittings
  - Cf. TK4001+ Applications of electric power
- 6010 General works
- 6012 Building control systems
  - Cf. TH7466.5 Heating control
  - Cf. TH7687.7 Air conditioning systems and details
- 6013 Maintenance and repair
- Environmental engineering of buildings. Sanitary engineering of buildings
  - Class here works on general and household plumbing, heating, lighting, air conditioning, soundproofing, etc., treated collectively
  - Class special aspects with the subject, e. g. TH7201+ Heating; TH1725 Soundproofing
- 6014 Periodicals, societies, congresses, etc.
- 6014.5 Dictionaries and encyclopedias
- 6015 Directories
- 6021 General works
- 6024 Handbooks, manuals, etc.
- 6025 General special
- 6028 Addresses, essays, lectures
- 6031 Design of systems
- 6051 Specifications
- 6053 Building orientation
- 6057.A-Z Installations in special classes of buildings. By class, A-Z
  - 6057.A6 Apartment houses. Dwellings
  - 6057.C6 Canneries
  - Dwellings see TH6057.A6
  - 6057.F3 Factories
  - 6057.F35 Farm buildings
  - 6057.I53 Industrial buildings
  - 6057.L3 Laundries, Public
  - 6057.M87 Museum buildings
  - 6057.O4 Office buildings
  - 6057.P8 Public buildings
  - 6057.R4 Restaurants, lunchrooms, etc.
  - 6057.T23 Tall buildings
  - 6057.T3 Theaters
  - 6057.W55 Wineries
- 6059.A-Z Installations within special buildings. By name, A-Z
- Sanitary crafts
  - General works
    - 6071 Early to 1875
    - 6072 1875-
    - 6073 Textbooks

- Environmental engineering of buildings. Sanitary engineering of buildings  
 Sanitary crafts -- Continued  
 6081 Study and teaching. Schools  
 (6085) Legislation  
     see class K
- Plumbing and pipefitting  
     Including household plumbing  
     Cf. TH6703+ Pipefitting
- 6101 Periodicals, societies, etc.  
 6107 Collected works (nonserial)  
 6109 Dictionaries and encyclopedias  
 6112 Directories  
     History
- 6115 General works  
     Special countries  
         United States
- 6116 General works  
 6117.A-W States, A-W  
 6118.A-Z Cities, A-Z  
 6119.A-Z Other regions or countries, A-Z
- General works  
 6121 Early to 1875  
 6122 1875-  
 6123 Textbooks  
 6124 Popular works. Juvenile works  
 6125 Pocketbooks, tables, etc.  
 6126 General special  
 6127 Addresses, essays, lectures  
 6128 Examinations, questions, etc.  
 6130 Vocational guidance
- Study and teaching  
 6131 General works  
     By region or country  
         Individual institutions are classed by state or country without further subdivision  
         United States
- 6151 General works  
 6152.A-Z By region or state, A-Z  
 6153.A-Z Other regions or countries, A-Z  
 (6161-6175) Laws and regulations  
     see class K
- General special  
 6225 Specifications  
 6231 Drawing and drawings  
     Bookkeeping for plumber and pipefitter see HF5686.P7  
     Estimates. Measurements. Quantities and costs



## Plumbing and pipefitting

## General special

Estimates. Measurements. Quantities and costs --

Continued

6234

Early to 1850

6235

1850-

6238

Superintendence

6239

Inspection

6241

Testing

Cf. TH6617 Testing for leakage

Plumbing fixtures and fitting supplies

6249

General works

6252

Standards

6255

Catalogs of plumbing and fitting supplies

Cf. TH6299 Plumbers' tools

Cf. TH6529 Catalogs of water-supply fixtures

Cf. TH6589 Catalogs of drainage fixtures

Cf. TH6729 Catalogs of pipefittings

(6280)

Systems of domestic water supply, drainage, etc.

see TH6521+

Plumbing work

Cf. TH6681+ Maintenance work

6291

General works

Laying pipes. Joints. Pipefitting

Cf. TH6703+ Pipefitting (General)

6293

General works

6294

Pipe bending

6295

Joint-wiping

6297

Soldering, solder, and fluxes in plumbing

Cf. TH6691 Lead burning

6299

Plumbers' tools and apparatus

Cf. TH6255 Catalogs of plumbing fixtures, etc.

Plastics in plumbing

6325

General works

6330

Plastic tubes and pipes

Cf. TA448 Testing of plastic pipes

Cf. TP1185.P5 Manufacture of plastic pipes

Plumbing of special rooms and areas

Bathrooms. Toilet rooms. Lavatories

For public toilets see TH6515.P9

6485

General works

6486

General special. Specifications, etc.

6487

Systems

Details. Fixtures

6488

General works

6489

Catalogs of bathroom fixtures

6490

Basins

## Plumbing and pipefitting

## Plumbing of special rooms and areas

## Bathrooms. Toilet rooms. Lavatories

## Details. Fixtures -- Continued

## Baths

Cf. TH6518.B3 Public baths

6491

## General works

6492

## Shower baths. Sprays

6493

## Tubs

6494

## Foot baths

6495

## Sitz baths

6496

## Bidets

6497

## Soil fixtures

6498

## Water closets. Toilets

6499

## Urinals

6500

## Flush tanks and auxiliary valves, etc.

6501

## Hot tubs

## Laundry plumbing

For public laundry plumbing see TH6518.L3

6502

## General works

6503

## Systems

## Details

6505

## Washtubs

## Kitchen and pantry plumbing

For range water-heating see TH6553+

For kitchen boilers see TH6563

For kitchen and laundry drainage systems see TH6661

For refrigerator plumbing see TH6671.R3

6507

## General works

6508

## Catalogs

6509

## Systems

## Details

6511

## Sinks

6512

## Grease traps

For traps (General) see TH6631+

6515.A-Z

## Plumbing of special buildings, A-Z

6515.A6

## Apartment house plumbing

6515.F2

## Factory plumbing

6515.F3

## Farmhouses

## Hospitals and health facilities see RA969.33

6515.H8

## Hotel plumbing

6515.O3

## Office building plumbing

6515.P9

## Public toilet plumbing

6515.S4

## Schools, universities, etc.

6515.T35

## Tall buildings

## Tenement house plumbing see TH6515.A6

6518.A-Z

## Plumbing for special establishments, A-Z

## Plumbing and pipefitting

## Plumbing for special establishments, A-Z -- Continued

- 6518.B2 Bar (saloon) plumbing
- 6518.B3 Baths, Public
- 6518.C3 Carriage house plumbing
- Laundries, Domestic (Plumbing) see TH6502+
- 6518.L3 Laundries, Public
- 6518.S6 Soda fountain plumbing

For soda water apparatus see TP635

## Water supply

- For municipal water supply see TD201+
- For cold water supply see TH6541+
- For hot water supply see TH6551+
- For pumps see TJ899+

- 6521 General works
- 6523 Backsiphonage. Cross-connections
- (6525) Rural domestic water supply

see TD927

## Details

- 6527 General works
  - 6528 Valves. Faucets
- For filters see TD449
- 6529 Catalogs of water-supply fixtures
  - Catalogs of pipefittings see TH6729
- 6531 Theory
  - (6535) Domestic means of supply
  - (6538) Water measurement and meters

see TD499+

## Cold water supply

- 6541 General works
  - Systems
  - 6542 General works
  - 6544 Flushing systems (Automatic, etc.)
  - 6545 Storage systems. Storage tanks
- For fire storage tanks or towers see TH9332+
- (6547) Details

see TH6527+

## Hot water supply. Water heaters

- 6551 General. Tank systems. Cylinder systems
  - Systems of heating
- For systems of supply see TH6567
- 6552 General works
  - Range water heaters
- For kitchen plumbing (General) see TH6507+
- For range boilers see TH6563
- 6553 General works
  - 6554 Types

	Plumbing and pipefitting
	Hot water supply. Water heaters
	Systems of heating
	Range water heaters -- Continued
	Details
6555	Water backs
6556	Water heating coils
6557	Thermostats
	Steam water heaters
6558	General works
6559	Steam coil tanks
6560	Steam condensation heating tanks
6561	Gas water heaters
6561.5	Electric water heaters
6561.7	Solar water heaters
	Cf. TJ809+ Solar energy
	Storage of hot water
6562	General works
6563	Kitchen boilers and supports
6564	Hot water tanks (used with water heaters)
	Explosions and their prevention. Kitchen boiler explosions
6565	General works
6566	Valves and blow-off cocks
	Cf. TJ350+ Safety appliances for steam boilers
6567	Systems of supply
	For systems of heating see TH6552+
6568	Connections and circulation piping
6569.A-Z	Special applications of water supply, A-Z
	Cf. TH9332+ Connections for fire extinction
	Cf. TH9365 Connections for fire extinction
6569.D7	Drinking fountains
6569.F7	Fountains
6569.S7	Sprinklers
	House drainage
6571	General works
6581	General special
6589	Catalogs of drainage fixtures, traps, etc.
	For catalogs of plumbing and fitting supplies see TH6255
	For catalogs of closets, basins, etc. see TH6489
	For catalogs of pipefittings see TH6729
6591	Theory
	Including expansion of drainage system
	Systems
6602	One-pipe systems
6604	Two-pipe systems
6607	Mechanical discharge systems

## Plumbing and pipefitting

## House drainage

## Systems -- Continued

6609.A-Z Special systems. By name of patentee or manufacturer,  
A-Z

(6610) Work

6613 Connections

6615 Roughing in

6617 Testing for leakage

Testing with compressed air, water, smoke, peppermint,  
etc.

## Details. Fittings

For catalogs of general drainage fittings see TH6589

6625 General works

6628 Drain piping (General)

For soil piping see TH6653

For waste piping see TH6658+

For vent piping see TH6668

## Traps and vents. Siphonage

For drain traps see TH6647

6631 General works

6633 Special types of traps

For grease traps see TH6512

6635 Cleanouts

For drain cleanout ferrules see TH6646

(6637) Cesspools

see TD775

(6638) Septic tanks

see TD778

## Elements of drainage system

6641 House sewer

Outside of house, connecting house drain with main sewer

## House drain

Horizontal piping in cellar, receiving all house drainage

6642 General works

6644 Supports for drains

6646 Cleanout ferrules

For cleanouts (General) see TH6635

6647 Special drain types

For traps (General) see TH6631+

Floor and area drains see TH6671.C3

6649 Fresh air inlets

Rain leaders see TH2493

## Soil stack systems

Class here draining sewage or sewage and wastes

6651 General works

6652 Soil stack

## Plumbing and pipefitting

## House drainage

## Elements of drainage system

## Soil stack systems -- Continued

6653

## Soil piping

## Waste stack systems

Class here draining wastes

6655

## General works

6656

## Waste stack

## Waste piping

6658

## General works

## Special waste systems

Cf. TH6671.A+ Special drainage applications

6661

## Kitchen and laundry wastes

For laundry plumbing see TH6502+

For kitchen plumbing see TH6507+

(6663)

## Laving systems and fixtures

see TH6485 TH6500

Toilet room plumbing and fixtures see TH6485+

## Vent stack systems

6665

## General works

6666

## Vent stack. Roof outlets

6668

## Vent piping

For drain piping (General) see TH6628

## Trap ventilation see TH6631+

6671.A-Z

## Special drainages, A-Z

6671.C3

## Cellar or basement drainage

6671.F6

## Floor and yard drainage

6671.R3

## Refrigerator drainage

6675.A-Z

## Special installations. By name, A-Z

Cf. TH6059.A+ Special sanitary installations

## Maintenance and repair of plumbing

6681

## General works

6685

## Freezing and thawing of pipes

6691

## Lead burning. Autogenous soldering

For soldering in plumbing see TH6297

## Pipefitting

Class here the installation of piping and fixtures for heating, lighting, etc.

For plumbing see TH6293+

For gas fitting see TH6840

For pipefitting for steam and hot water heating see TH7467+

6703

## General works

6706

## Textbooks

6711

## Pocketbooks, tables, rules

6715

## General special

## Plumbing and pipefitting

## Pipefitting -- Continued

6721 Estimates of material and labor

6723 Prices of pipefittings

6729 Catalogs of pipefitting

Catalogs of drainage fixtures see TH6589

Catalogs of gas fixtures see TH6865

Catalogs of water supply fixtures see TH6529

Catalogs of plumbing and fitting supplies see TH6255

## Gas in buildings. Building gas supply

Cf. TH6561 Gas water heating

Cf. TH7405+ Gas heating

Cf. TH7466.G3 Central heating with gas

Cf. TH7910+ Gas lighting

Cf. TX657.O6 Kitchen gas ovens

Cf. TX657.S6 Kitchen gas ranges

6800 Periodicals, societies, congresses, etc.

6810 General works

6820 General special

## Safety measures

6830 General works

6835 Venting for appliances

6840 Piping installation. Pipefitting

## Details

6850 General works

## Fixtures and appliances

6855 General works

6860 Maintenance and repair. Testing

6865 Catalogs

6870 Meters

6875 Governors. Regulators

6880 Burners

6882 Flame monitors

## Ignition devices

Including electric ignitors

6885 General works

6887 Pilot lights

## Heating and ventilation

Cf. TH7201+ Heating of buildings, including special aspects of both heating and ventilation

Cf. TH7647+ Ventilation only

7005 Periodicals, societies, congresses, etc.

7007 Dictionaries and encyclopedias

## General works

7010 Early to 1860

7011 1860-

7012 Textbooks

## Heating and ventilation

## General works -- Continued

7015

## General special

Including climatic factors

(7081-7084)

## Legislation

see class K

## Heating engineering. Industrial heating

Cf. TH6552+ Heating of water

Cf. TJ255+ Engines using heat as a source of power

Cf. TP363 Heating, drying, cooling, etc.

7121

## General works

7124

## Pocketbooks, tables, etc.

7135

## Stoves, etc., for commercial kitchens

Kitchen stoves and ranges see TX657.S3+

Kitchen boilers see TH6563

Stove heating see TH7435+

Stove manufacture see TS425

## Industrial furnaces

Class furnaces for special uses in the field of application

Cf. TK4661 Electric furnaces

Cf. TN677+ Metallurgical furnaces

Cf. TP841+ Kilns

Cf. TS231 Cupola furnaces

7140

## General works

7145

## Solar furnaces

Cf. TJ809+ Solar energy

Solar water heating see TH6561.7

Solar heating of buildings see TH7413+

## Heating of buildings

Including domestic heating

Class here also works that discuss special aspects of both  
heating and ventilation of buildings

7201

## Periodicals, societies, etc.

7205

## Congresses

7207

## Collected works (nonserial)

7209

## Dictionaries and encyclopedias

## Directories

7212

## General works

7213

## Special localities

## History

7215

## General works

7216.A-Z

## Country divisions, A-Z

## General works

7221

## Early to 1860

7222

## 1860-

7223

## Textbooks

7224

## Popular works. Juvenile works



## Heating and ventilation

## Heating of buildings

## General works -- Continued

7225 Pocketbooks, tables, rules, etc.

7226 General special

7227 Addresses, essays, lectures

7231 Study and teaching

7325 Specifications

7331 Drawings

## Estimates. Measurements. Quantities and costs

7335 General works

7337 Schedules of prices

7338 Superintendence

7339 Inspection

7341 Testing

7345 Equipment and supplies

7355 Catalogs of heaters and fixtures (General)

7391.A-Z Special rooms, A-Z

7392.A-Z Special classes of building. By name, A-Z

Cf. TH7684+ Ventilation of special classes of buildings

7392.A6 Apartment houses

7392.A8 Atomic bomb shelters

7392.A9 Automobile service stations

7392.C56 Chemical plants

7392.C6 Churches

College buildings see TH7392.S35

7392.C65 Commercial buildings

7392.C7 Creameries

Dwellings see TH7201+

Factories see TH7392.M6

7392.F3 Farm buildings

7392.F6 Foundries

7392.G37 Garages

Hospitals see RA969

7392.I53 Industrial buildings

7392.M2 Machine shops

7392.M6 Mills and factories

7392.O35 Office buildings

7392.P33 Packinghouses

7392.P8 Prisons

7392.P9 Public buildings

7392.R3 Railroad structures and buildings

7392.S35 School buildings. University and college buildings

7392.S65 Sports facilities

7392.T34 Tall buildings

7392.T47 Textile factories

7392.T5 Theaters

## Heating and ventilation

## Heating of buildings

Special classes of building. By name, A-Z -- Continued

University buildings see TH7392.S35

7395.A-Z

Special installations. By name, A-Z

Cf. TH7685.A+ Ventilating installations

## Heating by special fuels or forms of energy

Cf. TH7424+ Wood heating in fireplaces

Cf. TH7437+ Wood stove heating

7400

## Coal heating

Cf. TH7428+ Grate heating

Cf. TH7443+ Coal stove heating

## Oil heating

Cf. TH7447+ Oil stove heating

Cf. TH7466.O6 Central heating by oil

7402

Periodicals, societies, congresses, etc.

7403

## General works

## Gas heating

Cf. TH7434 Gas fireplace heating

Cf. TH7453+ Gas stove heating

Cf. TH7466.G3 Central heating by gas

7405

Periodicals, societies, congresses, etc.

7406

## General works

## Electric heating

Cf. TH7434.5+ Electric radiant heating

Cf. TH7638 Heat pump systems

7409

Periodicals. Societies. Congresses

7410

## General works

## Solar heating

Cf. TK1056 Solar powerplants

7413

## General works

7413.5

Central solar heating plants with seasonal storage

7414

## Solar houses

## Geothermal heating

7416

## General works

7416.5

Geothermal district heating

7417

Geothermal space heating

7417.5

Ground source heat pump systems

## Local heating

Cf. TH2055 Radiative heating (Open fires)

Cf. TH7435+ Convective heating (Stoves)

7418

## General works

7419

## General special

7420

## Theory

For fuel heating see TP315+

## Radiative heating. Open fires

7421

## General works

## Heating and ventilation

## Heating of buildings

## Local heating

## Radiative heating. Open fires -- Continued

- 7422 Catalogs of fireplace and grate fixtures
  - For fireplaces see TH7425+
  - For grates see TH7428+
  - Cf. TH2055 Building fittings
- 7423 Charcoal fires. Braziers
- Fireplace heating with wood
- 7424 General works
- Fireplaces
- 7425 General works
- 7426.A-Z Special fireplaces. By name of manufacturer, etc., A-Z
  - Including catalogs
- 7427.A-Z Details and fittings, A-Z
- 7427.A5 Andirons
- Grate heating with coal, etc.
- 7428 General works
- Grates
- 7429.A1 General works
- 7429.A2-Z Special types of grate. By name, A-Z
- 7430 Catalogs (General)
- 7431.A-Z Special grates. By name of manufacturer, etc., A-Z
- Details and fittings
- 7432 General works
- 7433 Grate frames. Summer pieces
- 7434 Gas fireplace heating. Gas logs
- Gas stove heating see TH7453+
- Electric radiant heating. Radiant heaters
- 7434.5 General works
- 7434.7 Panel type installations
- Convective heating. Stoves
  - Cf. TS425 Manufacture of stoves
  - Cf. TX657.S3+ Kitchen stoves
- 7435 General works
- 7436.A-Z Special types, other than by fuel, A-Z
- 7436.B3 Base-heating stoves
- 7436.D6 Double jacket stoves
  - With air chamber for air heating
- 7436.E4 Earthenware stoves
- 7436.M37 Masonry stoves
- 7436.5 Biomass stove heating
- Wood stove heating
- 7437 General works
- Wood stoves

## Heating and ventilation

## Heating of buildings

## Local heating

## Convective heating. Stoves

## Wood stove heating

## Wood stoves -- Continued

7438

General works

7439

Catalogs

7440.A-Z

Special wood stoves. By name of manufacture,  
etc., A-Z

7441

Details and fixtures, A-Z

## Coal and coke stove heating

7443

General works

7444

Catalogs

7445.A-Z

Special stoves. By name of manufacture, A-Z

7446.A-Z

Details and fixtures, A-Z

## Oil and gas stove and radiator heating

7447

General works

## Oil stove and radiator heating

7448

General works

## Oil stoves and radiators

7449

General works

7450

Catalogs

7450.5

Kerosene heaters

7451.A-Z

Special oil stoves. By name of manufacturer, A-Z

7452.A-Z

Details and fixtures, A-Z

## Gas stove heating

Cf. TH7434 Gas grate heating

Cf. TH7447+ Oil and gas stove heating

7453

General works

## Gas stoves

7454

General works

7455

Catalogs

7456.A-Z

Special gas stoves. By name of manufacturer

7457.A-Z

Details and fixtures, A-Z

7457.B8

Burners

7457.D7

Draft hoods

7458.A-Z

Stove heating with other fuels. By fuel, A-Z

7458.G7

Grass heating and stoves

## Local heating of special classes of buildings see

TH7392.A+

## Central heating

Cf. TH7511+ Hot water heating

Cf. TH7561+ Steam heating

Cf. TH7601+ Hot air heating

Cf. TH7641+ Heating from central stations

7461

General works

## Heating and ventilation

## Heating of buildings

## Central heating -- Continued

7463

## General special

Including gas heating

7465

## Theory

7466.A-Z

## Special fuels, A-Z

7466.G3

## Gas

7466.O6

## Oil

7466.W66

## Wood

7466.5

## Regulators. Thermostats

Cf. TH7687+ Air conditioning

## Hydronic systems

Class here works discussing both hot water and steam heating combined

Cf. TH6703+ Pipefitting

7467

## General works

## Details for hydronic systems

7469.A1

## General works

7469.A2-Z

## Special. By name of manufacturer, etc., A-Z

Including histories of manufacturing firms

## Furnaces and boilers for heating

Cf. TH7538+ Hot water furnaces and boilers

Cf. TH7588+ Steam furnaces and boilers

Cf. TJ263.5 Boilers (General)

7470

## General works

7471

## Testing

7473

## Stationary or bricked-in

7475

## Movable or independent

7476.A-Z

## Special furnaces and boilers. By name of manufacturer, etc., A-Z

7477

## Door and damper regulators

7478

## Piping, valves and other fittings

Cf. TH6703+ Pipefitting

7479

## Air vents, etc.

## Radiators

Cf. TH7547 Radiators for hot water heating

Cf. TH7597 Radiators for steam heating

7480

## General works

## Direct radiators and coils

7481

## General works

## Coils

7482

## General works

7483

## Flat coils

7484

## Wall coils

## Radiators

7486

## General works

	Heating and ventilation
	Heating of buildings
	Central heating
	Hydronic systems
	Details for hydronic systems
	Radiators
	Direct radiators and coils
	Radiators -- Continued
7487	Sectional (cast iron)
7488	Tubular, etc.
7490	Direct-indirect radiators. Ventilating radiators
	Indirect radiators
7492	General works
7493	Box coil radiators
7495.A-Z	Special radiators. By name of manufacturer, etc., A-Z
	Hot water heating and fixtures
	Cf. TH6703+ Pipefitting
7511	General works
7512	Pocketbooks, tables, etc.
7513	Specifications, drawings, etc.
7515	Theory
	Low-pressure hot water heating (with dome boilers)
7518	General works
7525	Distribution
	Including two-pipe system, one-pipe system, and overhead system
7529	Special details or fixtures (not A-Z)
	Including furnaces, boilers, and appurtenances
	High-pressure hot water heating (with coil boilers)
7530	General works
7533	Distribution
7534.A-Z	Special details or fixtures, A-Z
	Including furnaces, boilers, etc.
7535	Forced circulation systems
7535.5	Radiant floor heating
	Details or fixtures of hot water heating
7536	General works
7537.A-Z	Special. By name of manufacturer, etc., A-Z
	Furnaces and boilers
	Cf. TH7470+ Furnaces and boilers for both steam and hot water heating
7538.A1	General works
7538.A2-Z	Special. By name of manufacturer, etc, A-Z
7539	Stationary or bricked-in furnaces and boilers
7540	Movable furnaces and boilers
7541	Door and damper regulators

## Heating and ventilation

## Heating of buildings

## Central heating

## Hydronic systems

## Hot water heating and fixtures

## Details or fixtures of hot water heating -- Continued

7542

## Expansion tanks

7543

## Special piping and valves

7545

## Air vents and other fittings

7547

## Radiators for hot water heating

Cf. TH7480+ Radiators for steam and hot water heating

(7548)

## Hot water heating of special classes of buildings

see TH7392

(7549)

## Hot water heating of special installations

see TH7395

## Steam heating and fixtures

Cf. TH6703+ Pipefitting

7561

## General works

7562

## Pocketbooks, tables, etc.

7563

## Specifications, drawings, etc.

7565

## Theory

(7567)

## Systems of distribution, etc.

Including two-pipe system, one-pipe system, and overhead or drop system

## Low-pressure steam heating

7570

## General works

7571

## Gravity systems (water returned to boiler)

7575

## Condense-waste systems (water discharge)

## Live steam systems (from engine boilers)

7576

## General works

7577

## Exhaust-steam utilization systems

7578.A-Z

## Special details, A-Z

Cf. TJ444 Oil separators (General)

7578.B3

## Back pressure valves

7578.G7

## Grease separators

7578.V3

## Valves

(7580)

## High-pressure steam heating

7583.A-Z

## Special steam-heating systems. By name, A-Z

## Details or fixtures of steam heating

7586

## General works

7587.A-Z

## Special. By name of manufacturer, etc., A-Z

## Furnaces and boilers

7588.A1

## General works

7588.A2-Z

## Special. By name of manufacturer, etc., A-Z

7589

## Stationary or bricked-in furnaces

7590

## Movable furnaces

## Heating and ventilation

## Heating of buildings

## Central heating

## Hydronic systems

## Steam heating and fixtures

## Details or fixtures of steam heating -- Continued

7591

Door and damper regulators

7593

Special piping and valves

7595

Air vents and other fittings

7597

Radiators for steam heating

(7598)

Steam heating for special classes of buildings

see TH7392

(7599)

Steam heating for special installations

see TH7395

## Warm-air heating and fixtures

7601

General works

7602

Specifications, drawings, etc.

## Theory

7603

General works

7608

Cold air supply, etc.

7609

## Construction

Cf. TS250 Sheet metalwork

Cf. TS600+ Tinsmithing

## Systems

7610

General works

7619.A-Z

Special. By name, A-Z

## Details

7621

General works

7622.A-Z

Special. By name of manufacturer, etc., A-Z

Furnaces and appurtenances

Cf. TH7609 Construction

7623

General works

7624.A-Z

Special. By name of manufacturer, etc., A-Z

7625

Flues and piping

7626

Registers

7627

Pipe dampers and draft registers

(7631)

Warm air heating of special classes of buildings

see TH7392

(7632)

Warm air heating of special installations

see TH7395

## Special warm air heating

7633

Warm air heating with heated air not admitted to  
rooms but removed by convection through floors,  
etc.

7635

Combination systems

Including warm air and steam systems



## Heating and ventilation

## Heating of buildings

## Central heating -- Continued

7638

## Heat pump systems

For ground source heat pump systems see TH7417.5

Cf. TH7687+ Air conditioning

Cf. TJ262 Theory

## Heating for a community from a single plant

For geothermal district heating see TH7416.5

7641

## General works

7643

## Heating pipes and mains

## Ventilation of buildings

Periodicals, societies, congresses, etc. see TH7005

## History

7647

## General works

## Special regions or countries

## United States

7648

## General works

7649.A-.W

## States, A-W

7650.A-Z

## Cities, A-Z

7651.A-Z

## Other regions or countries, A-Z

## General works

7652

## Early to 1800

7653

## 1800-

7654

## Textbooks

7655

## Popular works. Juvenile works

7656

## Pocketbooks, tables, and rules

7657

## General special

Including use of ozone

7658

## Addresses, essays, lectures

## Natural ventilation

Class here natural draft, without fans, etc.

7674

## General works

7675.A-Z

## Special systems. By name of manufacturer, A-Z

## Artificial ventilation

Including ventilators

7678

## General works

7681

## General special

7682.A-Z

## Special systems, A-Z

7682.D45

## Demand controlled ventilation systems

7682.D57

## Displacement ventilation

7682.E44

## Emergency ventilation

7683.A-Z

## Details, fixtures, etc., A-Z

7683.A25

## Air curtains

7683.A3

## Air filters. Air washers

7683.D8

## Air ducts

7683.F3

## Fans

## Heating and ventilation

## Ventilation of buildings

## Details, fixtures, etc., A-Z -- Continued

7683.H42

Heat exchangers

7683.L7

Louvers

7683.P8

Punkas

7683.R4

Registers and flues

Cf. TH7626 Heating

7683.V4

Ventilators and chimney tops

## Special ventilation

7684.A-Z

## Special buildings and facilities, A-Z

7684.A6

Apartment houses

7684.B35

Basements

7684.C44

Chemical plants

7684.C6

Churches

7684.D9

Dwellings

7684.F2

Factories

7684.F3

Farm buildings

7684.F45

Flour mills

Hospitals see RA969

7684.K5

Kitchens

7684.M2

Machine shops

7684.N83

Nuclear facilities

7684.P7

Power plants

7684.P75

Printing plants

7684.P8

Public buildings

7684.R3

Railroad repair shops

Schoolhouses see LB3244

7684.S55

Slaughterhouses

7684.T25

Textile factories

7684.T3

Theaters

7685.A-Z

## Special ventilating installations, A-Z

e.g.

7685.G8

Great Britain. House of Commons

## Air conditioning, cooling, etc.

7687.A1

Periodicals, societies, etc.

7687.A2-Z

General works

7687.5

General special

Including noise

7687.7

Systems and details

7687.75

Air conditioning from central stations

7687.78

Chilled beams

7687.8

Humidity control

7687.85

Gas air conditioning

7687.9

Solar air conditioning

7687.95

Variable air volume systems

7688.A-Z

Special classes of building, A-Z

## Heating and ventilation

## Ventilation of buildings

## Air conditioning, cooling, etc.

## Special classes of building, A-Z -- Continued

- 7688.B3 Bakeries
  - 7688.C64 Commercial buildings
  - Factories
    - 7688.F2 General
    - 7688.F24 Food
    - 7688.F27 Paper
    - 7688.F3 Textile
  - 7688.H6 Homes. Dwellings
  - 7688.L3 Laboratories
  - 7688.O4 Office buildings
  - 7688.O44 Offshore structures. Artificial islands
  - 7688.P3 Packinghouses
  - 7688.P7 Printing plants
  - 7688.P78 Public buildings
  - 7688.P8 Public shelters
  - School buildings see LB3244
  - 7688.W3 Warehouses
- Dust removal (by pneumatic suction, etc.)
- 7692 General works
  - 7694 Clean rooms
  - 7695.A-Z Special systems. By name, A-Z
    - 7695.E4 Electrostatic precipitation
    - 7695.I52 Inertial separation
    - 7695.S6 Sonic coagulation
    - 7695.V2 Vacuum system
    - 7695.V45 Venturi scrubber
  - 7696 Details. Fixtures
  - 7697.A-Z In special buildings and operations. By type, A-Z
    - 7697.A8 Asbestos industry
    - 7697.B75 Brickworks
    - 7697.B8 Building materials industry
    - 7697.B82 Bulk solids handling
    - 7697.C4 Cement industries
    - 7697.C54 Chemical plants
    - 7697.C58 Coal preparation plants
    - 7697.C6 Compressor stations
    - 7697.C7 Crushed stone industry
    - 7697.E45 Electric power plants
    - 7697.F2 Factories and workshops
    - 7697.F55 Food processing plants
    - 7697.F6 Foundries
    - 7697.G67 Grain elevators
    - 7697.G7 Granite plants

## Heating and ventilation

## Ventilation of buildings

Dust removal (by pneumatic suction, etc.)

In special buildings and operations. By type, A-Z --

Continued

7697.I76

Iron industry

7697.M4

Metallurgical plants

Mine dust control see TN312

7697.M56

Mineral industries

7697.O7

Ore-dressing plants

7697.P5

Plastics plants

7697.Q37

Quarries

7697.R4

Refractories industry

7697.R6

Rolling mills

7697.S3

Sand and gravel industry

7697.T4

Textile factories

7697.T5

Tin industry

7697.W4

Welding shops

7697.W6

Woodworking industries

7698.A-Z

Special installations. By name, A-Z

e.g.

7698.S7

Spokane Post Office

7699.A-Z

Other hygienic aspects, A-Z

7699.D4

Deodorization

## Illumination. Lighting

Cf. NK2115.5.L5 Lighting as an element in interior decoration

Cf. TH7910+ Gas lighting

Cf. TK4125+ Electric lighting

7700

Periodicals. Societies. Collections

7703

General works

7710

Pocketbooks, tables, etc.

7715

Standards. Specifications

7720

Safety measures

7723

Shadows

7725

General special

Natural lighting

7791

General works

7792

Easement of light. Light rights. Ancient light

7795

Luxfer prisms

7799

Sidewalk lights

Artificial lighting

7900

General works

Gas lighting

7910

General works

7915

Popular works. Consumers' guides, etc.

Incandescent gas lighting

## Illumination. Lighting

## Artificial lighting

## Incandescent gas lighting -- Continued

7953

General works

7955.A-Z

Special systems, A-Z

7955.W3

Washington system

7955.W4

Welsbach system

## Lighting fixtures

Cf. TK4198 Electric lighting fixtures

## Gas and electric

7960

General works

7963

Specifications

Catalogs

7965

To 1880

7967

1880-

7970.A-Z

Other special, A-Z

7970.L35

Lampposts

7970.R4

Reflectors

7975.A-Z

Special types of buildings, A-Z

7975.C65

Commercial buildings

7975.D8

Dwellings

7975.F2

Factories and workshops

Hospitals see RA969.5

7975.P82

Public buildings

Cf. TK4399.P8 Electric lighting

Workshops see TH7975.F2

Acoustics in buildings see TH1725

## Decoration and decorative furnishings

Class here technical works for the artisan

For artistic interior decoration see NK1700+

8001

## Periodicals

## General works

8024

Early to 1800

8025

1800-

8026

Textbooks

8031

Pocketbooks, tables, receipts, etc.

Plastering, calcimining, etc.

8120

Periodicals, societies, etc.

8131

General works

8132

General special

Including drawings, estimates, ready reckoners

## Plaster

Cf. TP888 Manufacture

8135

General works

8137.A-Z

Special plasters, A-Z

8137.G8

Gypsum plasters

8139

Plasterboard. Gypsum wallboard. Drywall

Decoration and decorative furnishings

Plastering, calcimining, etc. -- Continued

8161

Calcimining

8181

Whitewashing

Glazing, painting, wall decoration, etc.

8203

General works

Glazing

Cf. TH2270+ Windows and doors and their fittings

Cf. TP812.A1+ Glazes, enamels, etc.

Cf. TP823 Technology of ceramic decoration

8251

General works

Ornamental, stained, art, or leaded glass (Use)

Cf. NK5300+ Art

8271

General works

8275

Catalogs

House painting

see TT300+

(8303)

General works

see TT320

(8321)

Exterior painting and material

see TT320+

(8351)

Interior painting and material

see TT323

Wall decoration

Cf. NK1700+ Art industries

(8403)

General works

see NK2119

Paperhanging and wallpaper

Cf. NK3375+ Art industries

8423

General works

8441

Paperhanging

Wallpaper

Prefer NK3375+

8461

General works

8463.A-Z

Special. By name of manufacturer, etc., A-Z

8471

Hanging burlap, buckram, lincrusta, etc.

Cf. NK3175+ Art industries

8481

Tapestrying and tapestry

Cf. NK2975+ Art industries

Cf. TS1780 Manufactures

Cf. TT849 Tapestry (Handicrafts)

Tilelaying and tile

8521

General works

8531

Tilelaying

## Decoration and decorative furnishings

## Tilelaying and tile -- Continued

## Tile. Decorative and ceramic tile

Class here works on tile of all materials, including plastic tile, when used for wall and ceiling decoration. Class here only works on ceramic tile when used for flooring

For other flooring materials, see TH2529

Cf. NA3705 Architectural decoration

Cf. NK4670+ Ceramics

Cf. TP837 Manufacture of tile

8541

## General works

8542.A-Z

## Special. By name of manufacturer, etc., A-Z

## Decorative woodwork

Including fretwork, grilles, etc.

Cf. NK9600+ Artistic woodwork

Cf. TH1151+ Architectural woodwork

Cf. TH2553 Interior moldings

8581

## General works

Parquet floors see TH2529.W6

(8601)

## Draping and drapery

see TT390

Carpets, rugs, etc. see TS1772+

## Protection of buildings

9025

## General works

## Against damage from natural causes

9031

From dampness. Waterproofing

Cf. TH2493 Guttering

9035

## Molds

9039

## Weathering

9041

## Pest control in buildings. Fumigation

Cf. TA423.6+ Wood preservation

Cf. TX325 Household pests

## Protection of buildings from lightning

Cf. TH1061+ Fireproof building construction

## General works

9057

## Treatises

9058

## Elementary textbooks

9061

Miscellaneous minor works, addresses, essays, etc.

## Systems of protection from lightning

9092.A-Z

## Special systems. By name of manufacturer, A-Z

Including catalogs

Earthquakes and building see TH1095

Bombproof construction see TH1097

Stormproof construction see TH1096

## Protection from fire. Fire prevention and extinction

Cf. TH1061+ Fireproof building construction

Cf. TH9057+ Protection against lightning

## Protection from fire. Fire prevention and extinction -- Continued

- 9111 Periodicals, societies, etc.  
For local societies see TH9500+
- 9112 Congresses, conventions, etc.  
For annual conventions of societies see TH9111
- Exhibitions. Museums
- 9114.A1 General works
- 9114.A2-Z By region or country, A-Z  
Subarrange each country by Table T4b
- 9115 Collected works (nonserial)
- 9116 Dictionaries and encyclopedias
- 9116.5 Directories
- History
- 9117 General works  
Special countries see TH9500+
- Biography
- 9118.A1 Collective
- 9118.A2-Z Individual, A-Z
- 9119 Fire prevention as a profession  
Study and teaching  
Cf. TH9225+ Engineering
- 9120 General works  
United States
- 9123 General works
- 9124.A-W States, A-W
- 9125.A-Z Cities, A-Z
- 9127.A-Z Other countries, A-Z
- 9128 Physical training for fire fighters
- 9130 Research  
General works
- 9145 Treatises
- 9146 Elements
- 9148 Popular works. Juvenile works
- 9149 Miscellanea
- 9150 Pocketbooks, tables, etc.  
Cf. HG9715 Manuals for insurance inspectors
- 9151 Firemen's manuals
- 9155 Addresses, essays, lectures
- 9157 Examinations, questions, etc.
- 9158 Fire department management  
For special countries, see TH9503+
- (9160) Legislation  
see class K
- 9176 Inspection. Fire inspectors' handbooks  
Including National Board of Fire Underwriters' rules and requirements  
Cf. HG9711+ Fire insurance surveys



## Protection from fire. Fire prevention and extinction -- Continued

- 9180 Investigation of fires
  - Cf. SD421.45.I58 Forest fire investigation
- 9182 Safety measures
- Theory of fire protection, etc.
- (9190) General works
  - see TH9145
- 9195 Enclosure fires
- 9197 Smoking and fires
- 9198 Spontaneous combustion (in relation to fire)
- 9198.5 Static electricity and fires
  - Cf. TH9445.E43 Fire prevention and extinction in electrical equipment
- Fire insurance engineering
  - Cf. TH1061+ Fireproof construction, including tests
- 9201 Periodicals, societies, etc.
- 9210 General works
- 9215 Pocketbooks, tables, etc.
- 9220 Addresses, essays, lectures
- Study and teaching
- 9225 General works
- Special schools
- 9230 United States
- 9235.A-Z Other regions or countries, A-Z
- 9237 Laboratories
- Fire prevention
  - Cf. TH1061+ Fireproof building construction
- 9241 General works
- 9245 Appliances, etc.
- Fire doors see TH2278+
- Fire detection and alarms
- 9271 Fire detectors. Combustible gas detectors
- 9275 Electric thermostat fire detectors
- 9280 Communication systems
- Fire extinction
  - Cf. TH9151 Firemen's manuals
- (9310) Theory
- 9310.5 General works
- 9310.8 Command and control
- Water supply
- 9311 General works
- Local see TH9503+
- 9323 Fire streams, nozzle forms, etc.
  - Cf. TC173 Hydraulic engineering
- Special methods of fire extinction
  - Including special apparatus
- Water tower systems

## Protection from fire. Fire prevention and extinction

## Fire extinction

## Special methods of fire extinction

## Water tower systems -- Continued

9332

General works

9333

For communities

9334

For individual buildings

9336

Automatic systems. Automatic sprinkler systems

9338

Chemical systems

Cf. TH1073+ Fireproof construction (Impregnation)

Cf. TH9362 Fire extinguishers

Cf. TP265+ Chemistry of fire and fire prevention

9339

Explosion systems, etc.

## General equipment and apparatus

Class special equipment with special systems

9360

General works

9361

General catalogs of fire department supplies

9362

Fire extinguishers

9363

Fire pumps. Hand pumps (Portable)

Cf. TJ903 Hand pumps (General)

9365

Fire hydrants

## Vehicles

9370

General works

## Fire engines

9371

General works

9372

Juvenile works

9373

Catalogs

9374

Hand fire engines

9375

Chemical fire engines

9376

Steam fire engines

9377

Gasoline fire engines

## Fire hose and carts

9378

General works

9379

Hose carts

9380

Hose and nozzles

For fire stream tables see TH9323

9383

Hook and ladder trucks

9391

## Fireboats

## Protective clothing. Uniforms

9395

General works

9396

Breathing apparatus

## Lifesaving at fires. Rescue work

Including drills, etc.

For fire escapes see TH2274

9402

General works

9410

Evacuation of buildings

Systems and apparatus

## Protection from fire. Fire prevention and extinction

## Fire extinction

## Lifesaving at fires. Rescue work

## Systems and apparatus -- Continued

- 9412                   Scaling ladder systems
- 9414                   Rope systems
- 9416                   Tubular bag systems
- 9418                   Net or sheet systems (jumping systems)
- (9425)                Special classes of buildings

see TH9445.A+

- 9431                   Salvage of material during fires

Including protection from water

- 9445.A-Z             Fire prevention and extinction in special classes of  
                          buildings and facilities, A-Z

- 9445.A4             Aged, Housing for. Nursing homes

- 9445.A5             Airports

- 9445.A62            Apartment houses

- 9445.A7             Archive buildings

- 9445.A8             Asylums

- 9445.A85            Atomic power plants

- 9445.B6             Bowling alleys

- 9445.B8             Building sites

Cathedrals see TH9445.C5

- 9445.C47            Chemical plants

- 9445.C48            Chimneys

- 9445.C5             Churches, cathedrals, shrines, etc.

- 9445.C6             Cleaning and dyeing plants

- 9445.C65            Computers and computer installations

Cf. TH9445.E45 Electronic data processing  
departments

- 9445.C67            Conveying machinery

- 9445.C68            Correctional institutions

- 9445.C7             Cotton gins

- 9445.D5             Distilleries

- 9445.D6             Dormitories

- 9445.D75            Drilling platforms

- 9445.D9             Dwellings

- 9445.E4             Electric power plants

- 9445.E43            Electrical equipment

- 9445.E45            Electronic data processing departments

Cf. TH9445.C65 Computers and computer  
installations

- 9445.E46            Electronic equipment

- 9445.E48            Elevators

- 9445.F35            Farms

- 9445.F6             Food industry

- 9445.F87            Furnaces

## Protection from fire. Fire prevention and extinction

## Fire extinction

Fire prevention and extinction in special classes of  
buildings and facilities, A-Z -- Continued

- 9445.G3 Garages
- Garden apartments see TH9445.A62
- 9445.G54 Glass trade
- 9445.G7 Grain elevators
- (9445.H3) Hangers
  - see TH9445.A5
- Health facilities see TH9445.H7
- 9445.H4 Heating equipment
- Heliports see TH9445.A5
- Historic buildings see TH9445.M8
- 9445.H7 Hospitals. Health facilities
- 9445.H75 Hotels
- Industrial buildings see TH9445.M4+
- 9445.L5 Libraries
- 9445.L8 Lumberyards
- Lunchrooms see TH9445.R44
- Mills and factory buildings
  - General works
  - Flour mills
  - Textile factories
  - Woodworking industries
- 9445.M4 Mines and mining see TN315
- 9445.M45 Museums, historic buildings, etc.
- 9445.M5 Navy yards and naval stations
- 9445.M6 Nuclear facilities
- Nuclear power plants see TH9445.A85
- Nursing homes see TH9445.A4
- 9445.O4 Office buildings
- 9445.O43 Offshore structures
- 9445.O55 Oil storage tanks
- Older people, Housing for see TH9445.A4
- 9445.P3 Paint shops
- 9445.P38 Petroleum pipelines
- 9445.P4 Petroleum refineries
- 9445.P5 Piers and other waterfront structures
- 9445.P55 Plastics plants
- 9445.P8 Public buildings
- 9445.R44 Restaurants, lunchrooms, etc.
- 9445.S3 School buildings
- 9445.S4 Service industries
- Shopping centers see TH9445.S8
- Shrines see TH9445.C5
- Skyscrapers see TH9445.T18

## Protection from fire. Fire prevention and extinction

## Fire extinction

Fire prevention and extinction in special classes of  
buildings and facilities, A-Z -- Continued

9445.S8

Stores, shopping centers, etc.

Cf. TH9445.U5 Underground shopping centers

9445.T18

Tall buildings. Skyscrapers

9445.T2

Tanneries

Temples see TH9445.C5

Theaters

9445.T3

General works

9445.T4

Motion picture theaters

9445.T5

Motion picture films in storehouses, etc.

9445.T7

Transportation industries

9445.T8

Tunnels

9445.U5

Underground shopping centers

9445.W2

Warehouses

Waterfronts see TH9445.P5

9446.A-Z

## Fire prevention and extinction in special materials, A-Z

9446.A37

Aerosols

9446.C5

Chemicals

9446.C6

Chlorine dioxide

9446.C65

Cleaning compounds

9446.C7

Cotton and cotton fabrics

9446.D86

Dust

9446.G3

Gasoline

9446.H38

Hazardous substances

9446.H9

Hydraulic fluids

9446.H96

Hydrogen

Inflammable materials

9446.I47

General works

9446.I475

Inflammable gases

9446.I5

Inflammable liquids

9446.I55

Insecticides

9446.L57

Liquefied natural gas

9446.M3

Magnesium

9446.O95

Oxygen

9446.P38

Peat

9446.P4

Petroleum

9446.P55

Plastics

9446.P65

Polymers

9446.R3

Radioactive substances

9446.R8

Rubber

9446.S3

Salts

## Fire testing of materials. Flammability of materials

9446.3

General works

9446.5.A-Z

Special materials, A-Z

## Protection from fire. Fire prevention and extinction

## Fire extinction

## Fire testing of materials. Flammability of materials

## Special materials, A-Z -- Continued

9446.5.B44

Belts and belting

9446.5.C35

Carpets

9446.5.E43

Electric insulators and insulation

9446.5.F87

Furniture

9446.5.G55

Glass

9446.5.P45

Plastics

9446.5.P65

Polymers

9446.5.U63

Upholstery

9446.5.W66

Wood products

9447

## Private fire departments for individual establishments

## Fires

9448

## General works

Including descriptions of the great conflagrations

9449.A-Z

## Special fires. By city, A-Z

Class here only technical reports

For popular descriptions, see local history in classes D-F

Fires in mines see TN315

Forest fires see SD420.5+

Grassland fires see SD421.5

Ground cover fires see SD421.47+

Wildfires see SD420.5+

## Protection from fire in special countries and cities

Including city fire departments and fire fighters's associations.

9500

## General collections

9501

## America

## North America (United States and Canada)

9502

## General works

## United States

9503

## General works

9504.A-.W

## Special states, A-W

Subarrange each state by Table T3a

Including works on separate counties

Cutter numbers listed below are provided as examples

9504.D6-.D69

District of Columbia (Table T3a)

9504.N7-.N79

New York (State) (Table T3a modified)

9504.N71

State fire marshal's report

9505.A-Z

## Special cities, A-Z

Subarrange each city by Table T3b

e.g.

9505.N5-.N509

New York (N.Y.) (Table T3b)

Washington (D.C.) see TH9504.D6+

## Canada

9506.A1-.A6

## General works

Protection from fire. Fire prevention and extinction  
 Protection from fire in special countries and cities  
 North America (United States and Canada)

Canada -- Continued

9506.A8-Z

Provinces, A-Z

9507.A-Z

Special cities, A-Z

Other countries

Mexico

9507.5

General works

9508.A-Z

Local, A-Z

Central America

9510.A1-.A6

General works

9510.A8-Z

By region or country, A-Z

9511.A-Z

Special cities, A-Z

West Indies

9512.A1-.A6

General works

9512.A7-Z

Special islands, A-Z

9513.A-Z

Special cities, A-Z

South America

9514

General works

9516

Argentina

9518

Bolivia

9521

Brazil

9523

Chile

9525

Colombia

9527

Ecuador

Guiana

9528

Guyana

9529

Suriname

9530

French Guiana

9531

Paraguay

9532

Peru

9533

Uruguay

9534

Venezuela

Europe

9535

General works

Great Britain. England

9537

General works

9539.A-Z

England. Cities, A-Z

9541

Ireland

9543

Scotland

9544

Wales

Austria

9545

General works

9546.A-Z

Special cities, A-Z

9547

Belgium

9549

Denmark

Protection from fire. Fire prevention and extinction  
 Protection from fire in special countries and cities

Other countries

Europe -- Continued

- 9551 France
- Germany
- 9553 General works
- 9554.A-Z Special cities, A-Z
- 9555 Greece
- 9557 Holland
- 9559 Italy
- 9561 Norway
- 9563 Portugal
- 9565 Russia. Soviet Union. Russia (Federation)
- 9567 Spain
- 9569 Sweden
- 9571 Switzerland
- 9575.A-Z Other regions or countries, A-Z

Asia

- 9580 General works
- 9581 China
- 9583 India
- 9585 Japan
- 9587 Iran
- 9589 Asia Minor. Turkey
- 9591 Siberia
- 9593.A-Z Other regions or countries, A-Z

Africa

- 9594 General works
- 9596 Egypt
- 9597.A-Z Other regions or countries, A-Z

Australia

- 9598.A1 General works
- 9598.A6-Z Local, A-Z

New Zealand

- 9598.5.A1 General works
- 9598.5.A6-9598.Z Local, A-Z

Pacific islands

- 9599.A1 General works
- 9599.A6-Z Local, A-Z

Protection from burglary, sabotage, etc. Security in buildings

Cf. HV6646+ Theft

Cf. HV8290+ Guards, watchmen, etc.

- 9701 Periodicals, societies, congresses, etc.
- 9705 General works
- Burglar-proof construction
- 9720 General works



## Protection from burglary, sabotage, etc. Security in buildings

## Burglar-proof construction -- Continued

9725.A-Z

Details, A-Z

9725.W5

Window guards

## Protection equipment and devices

9730

General works

9732

Fences

9734

Safes and vaults

9735

Locks. Electronic locking devices

Cf. TH2279 Door fittings

Cf. TS519+ Locksmithing

9737

Electronic security systems

9739

Detection and alarm equipment. Burglar alarms

9745.A-Z

Security of special buildings, A-Z

Archives see CD986

Art museums see N463

9745.D85

Dwellings

9745.F3

Factories

Health facilities see RA969.95

Houses see TH9745.D85

Libraries see Z679.6

Museums see AM148

9745.S59

Skyscrapers

9745.S7

Stores, Retail

- Mechanical engineering and machinery
  - Periodicals and societies. By language of publication
    - 1 English
    - 2 French
    - 3 German
    - 4 Other languages (not A-Z)
    - 5 Congresses
  - Exhibitions. Museums
    - 6.A1 General works
    - 6.A2-Z By region or country, A-Z
      - Subarrange each country by Table T4b
  - 7 Collected works (nonserial)
  - 9 Dictionaries and encyclopedias
  - Directories
    - For directories of makers and dealers in machinery tools, supplies, etc. see TJ1170
    - 11 General and the United States
    - 12.A-.W United States. By state, A-W
      - Subarrange each state by Table T4a
    - 13.A-Z Other countries, A-Z
  - 14 Philosophy of machinery
  - History
    - 15 General works
    - 16 Ancient
    - 17 Medieval
    - 18 Modern
    - 19 Nineteenth century
    - 20 Twentieth century
  - 21-127 Country divisions (Table T1a)
    - Add country number in table to TJ0
  - 130.A-Z Special companies (History, description, etc), A-Z
  - Biography
    - 139 Collective
    - 140.A-Z Individual, A-Z
  - General works on mechanical engineering
    - 144 Early to 1800
    - 145 1800-
    - 146 Elementary textbooks
    - 147 Popular works. Juvenile works
    - 148 Laboratory practice and student manuals. Testing
      - Cf. TA416+ Engineering laboratories
    - 151 Pocketbooks, rules, tables, etc.
    - 153 General special
      - Including data processing, costs, etc.
    - 155 Addresses, essays, lectures
    - 157 Mechanical engineering as a profession
  - Study and teaching

- Study and teaching -- Continued
- 158 General works
- 159 Problems, questions, etc.
- Research
- 159.5 General works
- 159.7.A-Z By region or country, A-Z
- Communication in mechanical engineering
- 160 General works
- 160.5 Information centers
- Mechanical and electrical engineering combined
- 163 General works
- 163.12 Mechatronics
  - For microelectromechanical systems see TK7875
- Power resources
  - For special power resources, see the resources e.g. TP315+
    - Fuel; TK9001+ Atomic power; etc.
  - Cf. TJ260 Heat as a source of power
  - Cf. TJ807+ Renewable energy sources
  - Cf. TN263.5 Energy minerals
- 163.13 Periodicals. Societies. Serials
- 163.15 Congresses
- Exhibitions. Museums
- 163.155.A1 General works
- 163.155.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 163.16 Dictionaries and encyclopedias
- 163.165 Directories
- 163.17 Information services
- 163.2 General works
- 163.23 Juvenile works
- 163.235 Handbooks, tables, etc.
- 163.24 Addresses, essays, lectures
- 163.245 Energy audits
- 163.25.A-Z Special regions or countries, A-Z
- Energy conservation
  - Cf. HD9502+ Economics of power resources and energy policy
  - Cf. TN860+ Petroleum conservation
- 163.26 Periodicals. Societies. Serials
- 163.27 Congresses
- 163.28 Dictionaries and encyclopedias
- 163.3 General works
- 163.35 Juvenile works
- 163.4.A-Z Special regions or countries, A-Z
- Biography
- 163.45 Collective
- 163.46.A-Z Individual, A-Z

## Energy conservation -- Continued

163.5.A-Z	Energy conservation or consumption in special industries, facilities, etc., A-Z
163.5.A37	Agriculture
	Air transport see TJ163.5.T7
	Apartment houses see TJ163.5.D86
163.5.B84	Buildings
163.5.C45	Cement industries
163.5.C54	Chemical industry
163.5.C57	Churches. Religious institutions
	Colleges see TJ163.5.U5
163.5.C65	Construction industry
163.5.D38	Data processing service centers
163.5.D86	Dwellings
163.5.F3	Factories
163.5.F5	Finishing industry
163.5.F6	Food industry
	Foundries see TJ163.5.M48
163.5.G55	Glass manufacture
	Health facilities and hospitals see RA967
163.5.H4	Heating plants
163.5.H67	Hotels. Motels
163.5.M48	Metallurgical plants
163.5.M54	Military bases
163.5.M56	Mineral industries
163.5.M87	Museums
163.5.O35	Office buildings
163.5.P33	Package goods industry
163.5.P37	Paper and pulp mills
163.5.P47	Petroleum refineries
163.5.P48	Plastics industry
163.5.P68	Power plants
	Religious institutions see TJ163.5.C57
163.5.R64	Rolling mills
163.5.R82	Rubber industry
	Schools see TJ163.5.U5
163.5.S67	Sports facilities
163.5.S83	Steelworks
163.5.S85	Stores, Retail
163.5.S93	Sugar industry
	Supermarkets see TJ163.5.S85
	Taverns see TJ163.5.H67
163.5.T48	Textile industry
163.5.T7	Transportation
163.5.U5	Universities and colleges. Schools
163.5.W36	Waterworks
163.5.W66	Wood-using industries

- Power (Mechanics)
- 163.6 Periodicals. Societies. Serials
- 163.7 Congresses
- 163.8 Dictionaries and encyclopedias
- 163.9 General works
- 163.95 Juvenile works
- 164 Power plants (General)
  - Cf. TJ395+ Steam
  - Cf. TK1191+ Electric
  - Cf. TK4399.P6 Electric lighting
- 165 Energy storage
  - Cf. TJ260 Thermal energy storage
  - Cf. TJ541 Flywheels
  - Cf. TJ981+ Compressed air
  - Cf. TK2980+ Electric energy storage
- 166 Safety measures and devices
  - Cf. TJ1177 Machine shops
- 168 General catalogs of mechanical engineering equipment
- Mechanics applied to machinery. Dynamics
- 170 General works
- 173 General special
  - Including work diagrams
- 174 Maintenance and repair of machinery
- 175 Principles of mechanism. Kinematics of machinery
- 177 Vibration of machinery
- 177.5 Alignment of machinery
- 179 Noise in machinery
  - Cf. TD893.6.M3 Noise in machine shops
- Mechanical movements
- 181 General works
- Special movements and devices
- 181.3 Perpetual motion
- 181.5 The wheel
- 181.6 Intermittent-motion mechanisms
- 181.7 Geneva mechanisms
- 181.8 Straight-line mechanisms
- 181.9 Pantograph
- Belt gearings, belts, pulleys, etc. see TJ1100+
- Links and link motion. Cranks
  - Cf. TJ762.C73 Motors
- 182 General works
- 183 Hooke's and other link couplings
- 183.5 Rolling contact
- Toothed gears. Gearing
- 184 General works
- 185 Tables, lists, etc.
- 186 Laying out gear teeth. Odontographs

- Mechanical movements
  - Special movements and devices
    - Toothed gears. Gearing -- Continued
      - 187 Gear-cutting machines
      - 188 Catalogs
      - Special gears
        - 189 Spur gears
        - 190 Racks (Racks and pinions)
        - 191 Annular gears
        - 192 Stepped, twisted, and helical gears
        - Bevel gears
          - 193 General works
          - 194 Miter wheels
          - 196 Screw bevel gears
          - Screw gears see TJ192
        - 200 Worm gears
        - 202 Other forms of gears
          - Including internal gears, reduction gears
      - 204 Transmission gears
        - Cf. TL260+ Automobiles
      - 206 Cams
      - 208 Vibrators
      - 209 Gyroscopes
        - Cf. QA862.G9 Analytic mechanics
        - Cf. TL589.2.C58 Compass (Gyroscope)
        - Cf. TL589.2.O6 Optical gyroscope
      - 210 Springs
    - Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General)
      - For industrial robots see TS191.8
      - Cf. ML1050 Automatic musical instruments
      - Cf. S678.65 Robotics in agriculture
      - Cf. TL1097 Space robotics
    - 210.2 Periodicals. Societies. Serials
    - 210.3 Congresses
    - 210.4 Dictionaries and encyclopedias
    - 210.5 Directories
    - 211 General works
    - 211.15 Popular works
    - 211.2 Juvenile works
    - 211.25 Vocational guidance
    - 211.26 Study and teaching
    - 211.3 Robot vision
    - 211.35 Control systems
    - 211.36 Microrobots
    - 211.37 Evolutionary robotics
    - 211.4 Robot motion. Robot dynamics

- Mechanical devices and figures. Automata. Ingenious mechanisms. Robots (General) -- Continued
- 211.412 Robot kinematics
  - 211.415 Mobile robots
  - 211.4152 Parallel robots
  - 211.416 Personal robotics
  - 211.417 Error detection and recovery
  - 211.419 Calibration
  - 211.42 Robot wrists
  - 211.43 Robot hands
  - 211.45 Programming
  - 211.47 Computer simulation
  - 211.49 Human factors
  - 211.495 Autonomous robots
  - 211.5 Specifications and standards
- Control engineering systems. Automatic machinery (General)
- Cf. HD6331+ Labor displacement
  - Cf. T59.5 Automation
  - Cf. TA165 Industrial instrumentation
  - Cf. TJ1180+ Automatic machine tools
  - Cf. TS156.8 Process control
- 212 Periodicals. Societies. Collected works
  - 212.2 Congresses
  - 212.5 Dictionaries and encyclopedias
  - 213 General works
  - 213.5 Popular works. Juvenile works
  - 213.7 Addresses, essays, lectures
  - 213.75 Study and teaching
  - 213.8 Problems, exercises, etc.
  - 213.9 Laboratory manuals
  - 213.95 Reliability
- Control systems
- 214 Servomechanisms
  - 214.5 Motion control devices
  - 216 Feedback control systems
  - 216.5 Feedforward control systems
  - 217 Adaptive control systems
  - 217.2 Robust control
  - 217.5 Intelligent control systems
  - 217.6 Predictive control
  - 217.7 Real-time control
  - 218 Carrier control systems
  - 218.5 Relay control systems
  - 218.7 Binary control systems
  - 219 Pneumatic control systems
  - 220 Linear control systems
  - 220.3 Nonlinear control systems

- Control engineering systems. Automatic machinery
- Control systems -- Continued
- 220.5 Sliding mode control
- 221 Passivity-based control
- 222 Supervisory control systems
  - Including SCADA systems
- 223.A-Z Special, A-Z
- 223.A25 Actuators
- 223.C45 Chattering control
- 223.C6 Counters
- Digital control see TJ223.M53
- 223.E4 Electromagnets
- 223.E65 Equalizers
- 223.L5 Level indicators
- 223.M3 Magnetic devices
- 223.M53 Microprocessors. Microcomputers. Digital control
  - Cf. QA76.6+ Computer programming
  - Cf. TK7895.M5 Computer hardware
- Optoelectronic devices see TJ223.P5
- 223.P4 Perceptrons
- 223.P5 Photoelectronic devices. Optoelectronic devices
- 223.P55 PID controllers
- 223.P76 Programmable controllers
- 223.R3 Radioactive measurements
- 223.S45 Semiconductors
- 223.S6 Solions
- 223.T4 Thermometers, etc.
- 223.T5 Timers
- 223.T75 Transducers
- 223.V3 Valves
- 225 Applications (General)
  - For special applications, see field of application, e.g. TJ1225
  - Milling machines numerically controlled
- Machine design and drawing
  - Including construction if contained in the same works
  - For the design of special machines, see below under each machine
  - For mechanical drawing see T351+
- 227 Drafting room practice
- 230 General works
- 233 General special
- 235 Graphic statics applied to machinery
- 240 Atlases and collections of designs and plans



- 241 Machinery manufacturing (General)  
For special types of machinery and machine-building processes,  
see under each machine or process, e.g. TJ1125+ Machine  
shop practice; TK2331 Electric machinery; TN345 Mining  
machinery; TS225+ Forging; TS228.99+ Founding; TS1525  
Textile machinery  
Cf. HD9705+ Machinery trade and manufacture
- 243 Machine parts
- 245 Specifications for machinery
- 245.5 Quality control of machinery
- 246 Packing. Gaskets. Sealing  
Cf. TJ529 Steam engine cylinder packing
- 247 Diaphragms
- 247.5 Bellows
- 248 Mechanical models
- 249 Erecting work. Foundations  
Prime movers in general
- 250 General works
- 253 Testing
- 254 Governors and governing  
Cf. TJ550+ Steam engines  
Cf. TJ1055 Machinery exclusive of prime movers
- Combustion engineering  
Cf. QD516 Thermochemistry  
Cf. TH7140+ Industrial furnace  
Cf. TJ324.7 Furnaces  
Cf. TJ756 Internal combustion engines  
Cf. TJ773 Explosion or ignition devices  
Cf. TJ797 Diesel engines  
Cf. TP315+ Fuel
- 254.5 General works
- 254.52 Air-fuel ratio
- 254.7 Combustion chambers  
Cf. TL709.5.C55 Jet engines
- Heat engines. Heat engineering  
Class here engines using heat as a source of power, including  
thermal energy systems  
For hot-air engines see TJ765
- 255 General works
- 255.5 Materials  
Including ceramic materials
- 260 Heat in its applications, as a source of power, etc  
Class here heat from the mechanical engineering standpoint
- 262 Heat pumps  
Cf. TH7638 Heating and air conditioning

## Heat engines. Heat engineering -- Continued

## Heat exchangers

For special applications, see under machine or process, e. g.  
 TJ778 Gas turbines; TP363 Heating, drying, cooling,  
 evaporating, etc.

263

General works

263.2

Thermosyphons

263.5

Boilers (General)

Cf. TH7470+ Heating

Cf. TJ281+ Steam boilers

264

Heat pipes

264.5

Vortex tubes

265

Theory of heat engines. Thermodynamics

## Turbines. Turbomachines (General)

Cf. TJ735+ Steam turbines

Cf. TJ778 Gas turbines

Cf. TJ870+ Hydraulic turbines

Cf. VM740 Marine turbines

266

General works

267

Theory of turbines. Fluid, aero- and hydrodynamics of  
turbomachinery

267.5.A-Z

Special topics, A-Z

267.5.B43

Bearings

267.5.B5

Blades

267.5.C3

Cascades

Compressors

267.5.C5

General works

267.5.C6

Supersonic compressors

267.5.D4

Diffusers

267.5.D5

Disks

267.5.I6

Impellers

267.5.N5

Noise

267.5.N6

Nozzles

Including supersonic nozzles, etc.

## Steam engineering

## Steam

Including heated fluids

268

Properties, etc.

270

Tables, calculations, etc.

271

Flow in pipes, orifices, etc.

272

Superheated steam. Superheaters, etc.

Cf. TJ693 Locomotives

275

Treatises, textbooks, etc.

277

Pocketbooks, tables, etc.

279

General special

Including high pressure steam

Study and teaching

- Steam engineering
  - Study and teaching -- Continued
  - 280 General works
  - 280.5 Examinations, questions, etc.
  - 280.7 Geothermal engineering
    - Cf. TH7416+ Geothermal heating
    - Cf. TK1055 Production of electric power from geothermal energy
- Steam boilers
  - Cf. TJ263.5 Boilers (General)
  - 281 Periodicals, societies, etc.
  - 282 Dictionaries and encyclopedias
  - 283 History
  - General works
    - 284 Early works to 1850
    - 285 1850-
    - 286 Elementary textbooks
    - 288 General special
      - Including boiler accessories
    - 289 Handbooks, management and care of boilers
      - Including firemen's manuals, catechisms, etc.
      - Cf. VM749 Manuals for marine boiler attendants
  - Construction (Boilermaking)
    - 290 General works
    - 291 Material of boilers, strength and testing
    - 292 Settings
    - 293 Supports
    - 294 Manholes
    - 295 Models
    - 296 Catalogs
      - For special types see TJ310+
    - 297 Testing. Heat transmission through boiler tubes
    - 298 Safety measures. Inspection
    - Steam boiler explosions
      - Cf. TH6565+ Kitchen boiler explosions
    - 299 General works
    - 301 Reports of special boiler explosions
    - (302-308) Law and legislation
      - see class K
  - Types of boilers
    - 310 Early types
      - Including Cornish, Lancashire, etc.
    - Multitubular
      - 311 General works
      - 312 Vertical
      - Locomotive boilers see TJ642
    - Water tube boilers

- Steam boilers
  - Types of boilers
    - Water tube boilers -- Continued
      - 314 General works
      - 315.A-Z Special types, A-Z
      - 316.A-Z Combination and other forms, A-Z
      - 318 Electrically heated steam boilers
      - 319 Waste heat boilers
      - Kitchen boilers see TH6563
      - Marine boilers see VK588+
  - Boiler details and accessories
    - Furnaces
      - 320 General works
      - Grates
        - 322 General works
        - 324.A-Z Special types, A-Z
        - 324.5 Fuel systems
        - 324.7 Combustion
        - 325 Gas burning installations
        - 326 Oil burning installations
        - 328 Air preheating
      - Chimneys
        - Cf. TH4591 Construction
    - 330 General works
    - 333 Draft
    - 335 Forced draft. Mechanical draft
    - Smoke prevention and consumers see TD884
    - 340 Fuel economizers
    - 345 Mechanical stokers. Automatic stokers
    - 347 Grate shakers
    - Safety appliances
      - Cf. TH6565+ Hot water supply
    - 350 General works
    - Safety valves
      - 352 General works
      - 354.A-Z Special types, A-Z
    - 356 Fusible plugs
    - 357 Pressure regulators
    - 358 Blowoffs
  - Water gages
    - 360 General works
    - 363 Gage or try cocks
    - 366 Water glasses
  - Steam or pressure gages
    - 370 General works
    - 372.A-Z Steam types, A-Z
  - Feed apparatus

- Steam boilers
  - Boiler details and accessories
    - Feed apparatus -- Continued
      - 375 General works
      - 377 Water supply for boilers
      - 378 Wells, etc.
      - 379 Feedwater purification. Water softeners, etc.
    - Feedwater heaters
      - 381 General works
      - 383.A-Z Special types, A-Z
    - 385 Feed pumps
    - 387 Injectors
  - Boiler scale
    - Including its prevention and removal
  - 390 General works
  - 392 Boiler compounds. Catalogs, circulars, etc.
  - 393 Steam accumulators
- Steam powerplants. Boiler plants
  - 395 Plants for power, heating, etc.
  - Plants for power alone
    - 400 General works
    - 403 General special
    - 405 Operation and management
    - 407 Special plants. Description, plans, drawings, testing, etc.
    - Coal and ash handling see TJ1405
  - 411 Directories of manufacturers and dealers in equipment and supplies
  - 412 Equipment and supplies
    - Including catalogs
- Pipe and fittings
  - Including standardization
  - Cf. TH7478 Steam heating fittings
  - 415 General works
  - (418) Catalogs
    - see TJ412
  - 421 Pipe flanges
    - Including standardization
  - 424 Expansion joints
  - 427 Steam pipe covering
  - Steam valves
    - 430 General works
    - 432 Catalogs
    - 433 Reducing valves
    - 435 Steam packing
    - 438 Steam traps
    - 441 Steam separators

- Steam powerplants. Boiler plants
- Pipe and fittings -- Continued
- 444 Oil separators
  - Cf. TH7578.G7 Steam heating, grease separators
- Steam engines
- 461 History
- 464 Early works to 1850
- 465 1850-
- 466 Textbooks
- 467 Popular works. Juvenile works
- 469 General special
  - Including curiosa
- 471 Handbooks, etc., for engine tenders
- 472 Addresses, essays, lectures
- 473 Catalogs (General)
  - For special types, see below
- 474 Standards. Specifications
- 475 Tests and efficiencies
- 478 Indicators
- 480 Models
- 483.5.A-Z Other special topics, A-Z
- 483.5.T47 Thermodynamics
- Steam engines. Special types (Reciprocating)
  - For early types see TJ461+
- 485.A-Z Types. By inventor or maker, A-Z
  - e.g.
- 485.C5 Corliss
- Types. By use of steam
- Simple
- 490 General works
- 492 Single acting
- 494 Double acting
- 495.A-Z Special makes, A-Z
- Compound
- 497 General works
- 499.A-Z Special makes, A-Z
- Triple expansion
- 501 General works
- 503.A-Z Special makes, A-Z
- 505 Quadruple expansion
- 507 Other types (not A-Z)
- Steam engines (Design and construction)
- 515 General works
- 520 Balancing of engines
- Details
  - Including description and parts
- 523 Foundations

- Steam engines
  - Steam engines (Design and construction)
    - Details -- Continued
    - 525 Frame setting
    - Cylinder
      - 527 General works
      - 529 Stuffing box. Packing
    - 531 Steam jacket
    - 533 Piston and piston rod. Piston rings
    - 535 Crosshead and connecting rod
    - 537 Crank and crankpin
    - 539 Shaft and journals
    - 541 Flywheel
    - 543 Eccentric and eccentric-rod
    - 545 Slide valve
    - 546 Piston valve
    - Valve gears
      - 547 General works
      - 548.A-Z Special types, A-Z
    - Governors
      - 550 General works
      - 551.A-Z Special types, A-Z
      - 551.C8 Corliss valve gears
  - Steam engine accessories
    - 555 General works
    - 557 Condensers
      - 559 Jet
      - 561 Surface
      - 563 Cooling towers
      - 565 Wells
    - 567 Exhausts
  - Locomotives
    - Cf. TF1+ Railroads
    - History
      - Cf. TJ625.A+ Special locomotive works
    - 603 General works
    - Special countries
      - United States
        - 603.2 General works
        - 603.3.A-Z Special railroad lines. By line, A-Z
          - e.g.
          - 603.3.S6 Southern Pacific Railroad
        - 603.4.A-Z Other regions or countries, A-Z
          - Under each:*
          - .x *General works*
          - .x2A-.x2Z *By special line, A-Z*

## Locomotives -- Continued

## Biography of locomotive engineers

For biography of inventors, designers, manufacturers,  
etc., of locomotives see TJ140.A+

603.49

## Collective

603.5.A-Z

## Individual, A-Z

## General works

Including dictionaries

604

## Early to 1850

605

## 1850-

605.5

## Juvenile works

606

## Manuals, pocketbooks, etc. for the locomotive builder

607

Handbooks, manuals, etc. for locomotive engineers and  
firemen

608

## General special

Including boiler accessories

## Special types

609

## General works

611

## Simple

613

## Compound

615

## Other types. By use of steam

## Electric locomotives see TF975

618

## Oil burning steam locomotives

## Diesel locomotives

619

## General works

## Special regions or countries

## United States

619.2

## General works

619.3.A-Z

## Special railroad lines. By line, A-Z

619.4.A-Z

## Other regions or countries, A-Z

*Under each:*

*.x*

*General works*

*.x2A-.x2Z*

*By special line, A-Z*

619.5

## Engines

619.7

## Electric equipment

## Electro-diesel locomotives see TF980

621

## Gasoline locomotives

622

## Gas turbine locomotives

623

## Nuclear locomotives

625.A-Z

## Special locomotive works and companies, A-Z

Including reports, histories, catalogs and descriptions of their  
locomotives

e.g.

625.B2

## Baldwin Locomotive Works

630

## Models and miniature engines

635

## Design and construction

## Repairs see TJ675



- Locomotives -- Continued
- Details (Various motive powers)
- 640 Frames and running gear
- 642 Boilers
  - Including regulation and inspection
- Fireboxes
- 646 General works
- 647 Ashpans
- 648 Fuel for locomotives. Coal, oil, etc.
  - Cf. TJ690 Locomotive performance
- 649 Mechanical stokers
- 650 Draft appliances. Exhausts
- 653 Smoke prevention
- 656 Sparks and spark arresters
- 659 Cylinders, pistons, etc.
- 662 Connecting rods, etc.
- 665 Valves and valve gears
- Other special
- 668 Headlights
- 669.A-Z Other, A-Z
- 669.B4 Bearings
- 669.B6 Boosters
- 669.B7 Brakes
- 669.C6 Compressors
- 669.C7 Cranks and crankshafts
- 669.E4 Electric equipment
- 669.S6 Speedometers
- 669.S7 Storage batteries
- 669.W54 Wheels
- 671 Locomotive tenders
- 675 Locomotive maintenance and repair. Lubrication
- Locomotive works and shops
- 680 General works
- 683 Shop practice
- Supervision and inspection of locomotives
  - Cf. TJ642 Boiler inspection
- Documents
- 685.A1-.A5 United States
- 685.A6A-.A6Z Other countries, A-Z
- 685.A7-Z General works
- 690 Testing. Locomotive performance
  - Cf. TF550+ Movement of trains
- 693 Superheated steam for locomotives
- 695 Locomotives for industrial purposes, logging, mining, etc.
  - Cf. TN337 Electric mine locomotives
- Other steam engines
- Marine engines see VM731+

- Other steam engines -- Continued
- 700 Traction engines, etc.
- 705 Steam wagons, trucks, etc.  
Cf. TL200+ Steam automobiles  
Road rollers see TE223+
- 710 Portable engines
- 712 Farm engines
- 717 Reciprocating engines of unusual form  
Steam engines of other forms not reciprocating
- 720 General works
- 725 Eolipiles
- 727 Aerosteam engines
- 729 Rotary engines
- 731 Cycloidal engines  
Steam turbines  
Cf. VM740 Marine turbines
- 735 General works
- 737 General special
- 740 Special types, makes, etc. (not A-Z)
- Miscellaneous motors and engines  
Including internal combustion engines; air, gas, and oil engines,  
etc.
- 751 Periodicals, societies, etc.
- 752 Dictionaries and encyclopedias
- 753 History
- 755 General works
- 755.5 Juvenile works
- 756 Combustion. Thermodynamics  
Cf. TJ797 Diesel engines
- 758 Patents
- 759 General special
- 762.A-Z Parts and systems, A-Z
- 762.B4 Bearings
- 762.C73 Cranks and crankshafts  
Cf. TJ669.C7 Locomotives  
Cf. TL210+ Motor vehicles
- 762.C94 Cylinder blocks
- 762.F84 Fuel systems
- 762.S95 Superchargers
- 763 Adiabatic engines
- 765 Hot-air engines. Caloric engines  
Compressed air engines
- 766 General works
- 766.5 Air turbines
- 766.7 Air-cooled engines
- 768 Gas powerplants  
Gas engines

- Miscellaneous motors and engines
- Gas engines -- Continued
- 770 General works
- 773 Explosion or ignition devices
- 774 Other details. Cylinders, pistons, etc.
- 775 Regulation devices
- 776 Special types
  - Including catalogs
- 777.A-Z Special applications, A-Z
- 777.F3 Farm engines
- 778 Gas turbines
  - Cf. TJ812.6 Solar gas turbines
  - Cf. VM740 Marine turbines
- 779 Free piston engines
- 779.2 Opposed piston engines
- 780 Engines for utilization of furnace and waste gases and heat
- Internal combustion engines, Spark ignition
  - Cf. TJ621 Gasoline locomotives
  - Cf. TL210+ Automobile motors
  - Cf. TL701+ Airplane motors
  - Cf. VM771+ Marine engines
- 782 Periodicals, societies, congresses, etc.
- 785 General works
- Carburetion, ignition, etc. Spark plugs. Magnetos
  - Cf. TL213 Automobiles
- 787 General works
- 787.3.A-Z Special topics, A-Z
- 787.3.M57 Misfire
- 788 Cylinders, pistons, and other parts
- 789 General special
  - Including lubrication, cooling, etc.
  - For automobile or airplane lubricants prefer TL153.5 and TL702.L8
- Special types
- 790 Small gasoline engines
  - Including two-stroke and four-stroke engines
- 791 Stratified charge engines
- 792 Rotary combustion engines
  - Including Wankel engine, Frasca engine
- Special applications
- 793 Agricultural machinery
- 793.2 Construction equipment
- 793.3 Hoisting machinery

## Miscellaneous motors and engines -- Continued

## Diesel engines

Cf. TJ619.5 Diesel engines for locomotives

Cf. TK1075 Diesel engine electric plants

Cf. TL704.2 Diesel engines for aircraft

Cf. VM770 Marine diesel engines

795.A1

Periodicals, societies, etc.

795.A2-Z

General works

795.5

Special types, makes, etc. (not A-Z)

797

Fuel systems. Fuel injection systems. Combustion

Cf. TP343+ Diesel fuels

798

Lubrication

798.5

Cylinders, pistons and other parts

799

General special

Including cooling, governors, exhaust systems, etc.

800

Alcohol motors

805

Engines or motors using other combustible liquids and vapors

## Renewable energy sources

Cf. GB1199.5+ Geothermal resources

Cf. TC147 Water power

Cf. TP360 Biomass energy

807

Periodicals. Societies. Serials

807.2

Congresses

807.4

Dictionaries and encyclopedias

807.6

Directories

807.8

Information services

807.9.A-Z

By region or country, A-Z

808

General works

808.2

Juvenile works

808.3

Handbooks, tables, etc.

808.5

Addresses, essays, lectures

Research

808.6

General works

808.7.A-Z

By region or country, A-Z

## Solar energy

Class here general works on solar energy. For applications in special fields, see the field, e.g. TH7413 Solar heating of buildings

Cf. HD9681 Solar energy industry

Cf. NA2542.S6 Architecture and solar radiation

Cf. QC910.2+ Solar radiation

Cf. TH6561.7 Solar water heating

Cf. TH7414 Solar houses

Cf. TK1056 Production of electric power from solar energy

809

Periodicals. Societies. Serials

	Renewable energy sources
	Solar energy -- Continued
809.2	Congresses
	Exhibitions. Museums
809.4	General works
809.5.A-Z	By region or country, A-Z
	Subarrange each country by Table T4b
809.6	Dictionaries and encyclopedias
809.8	Directories
809.9	Information services
	By region or country
	United States
809.95	General works
809.96.A-Z	By region or state, A-Z
809.97.A-Z	Other regions or countries, A-Z
810	General works
810.3	Juvenile works
810.5	Handbooks, tables, etc.
810.7	Addresses, essays, lectures
810.9	Study and teaching
	Research
811	General works
811.5.A-Z	By region or country, A-Z
	Special topics
811.8	Photosynthesis
	Solar batteries. Solar cells see TK2960
812	Solar collectors
812.5	Solar engines
812.6	Solar gas turbines
812.7	Solar materials
812.8	Solar ponds
	Wind power
820	General works
	Windmills
823	History
824	Early works to 1800
825	1800-
827	Trade catalogs
828	Wind turbines
	Wind pumps see TJ926
830	Animal motors. Treadmills
	Hydraulic machinery
	Cf. TC1+ Hydraulic engineering
836	Periodicals. Societies. Serials
838	Congresses
839	Dictionaries and encyclopedias
	General works

	Hydraulic machinery
	General works -- Continued
840.A2	Early to 1800
840.A3-Z	1800-
843	Oil hydraulics and oil hydraulic machinery
844	Hydraulic fluids
	Hydraulic powerplants
	Cf. TK1081+ Hydroelectric plants
	Cf. TK1421+ Hydroelectric plants, by place
(845)	General works
	see TC147
847	Sluices, gates, etc.
849	Penstocks and pipelines
851	Wasteways, etc.
	Fluidics and fluidic devices
853	General works
853.4.A-Z	Special topics, A-Z
853.4.M53	Microfluidics and microfluidic devices
	Including nanofluids
853.4.O68	Optofluidics
	Hydraulic motors
855	General works
857	General special
	Including regulators, etc.
859	Water mills
	Water wheels
860	General works
862	Overshot
864	Undershot
866	Tangential (Pelton, etc.)
	Turbines
	Cf. TJ735+ Steam turbines
870	General works
873	General special
875	Special types
880	Hydraulic brakes
890	Water-pressure engines
	Conveying of gases, liquids and solids by means of steam, air, or water
898	General works
898.5	Coal slurry pipelines
	Cf. TJ1405 Coal-handling machinery
	Pumps and pumping engines
	Cf. TC929 Irrigation pumps
899	Periodicals, societies, etc.
899.5	Congresses
899.7	Dictionaries and encyclopedias

- Hydraulic machinery
- Pumps and pumping engines -- Continued
- 900 General works
- 901 General special
  - Including ancient and primitive pumps
- 902 Catalogs
  - Cf. TH6529 Water-supply fittings
- 902.5 Standards. Specifications
- 903 Hand pumps
  - Cf. TH9363 Fire pumps
- 905 Hydraulic rams
- Steam pumps
- 906 General works
- 908 Catalogs, etc.
- 910 Electric pumping machinery
- 912 Solar pumps
- 915 Piston pumps. Reciprocating pumps
- 916 Metering pumps
- 917 Rotary pumps
- 919 Centrifugal pumps (Kreiselpumpen)
- 921 Pulsometers, steam syphons, etc.
- 925 Pumping by compressed air. Airlift pumps
- 926 Wind pumps
- 927 Submersible pumps
- Fire engines see TH9371+
- Pipelines (General)
  - Cf. TA660.P55 Structural engineering
  - Cf. TC1800 Ocean engineering
  - Cf. TJ898.5 Coal slurry pipelines
  - Cf. TN879.5+ Petroleum pipelines
  - Cf. TN880.5 Natural gas pipelines
- 930 General works
- 930.5 Supports
- 933 Equipment and supplies
  - Including catalogs
- 934 Double wall piping
- 935 Flow of fluids in pipes. Flowmeters
  - Cf. TC174 Flow of water in pipes
- Vacuum technology
- 940 General works
- 940.5 Vacuum pumps
- Pneumatic machinery
- 950 General works
- Airbrakes see TF420+
- 955 Air pumps
- Blowers and fans. Exhausters
  - Cf. TH7683.A+ Ventilation fixtures

	Pneumatic machinery
	Blowers and fans. Exhausters -- Continued
960	General works
963	Piston blowers. Blast engines
966	Rotary blowers
969	Centrifugal blowers
	Compressed air
981	Periodicals, societies, etc.
985	General works
	Air compressors
990	General works
992	Catalogs and trade publications
1000	Distribution and transmission
	Pneumatic tools
1005	General works
1007	Catalogs
1009	Sandblast
	Cf. TP864 Glasswork
1015	Pneumatic tubes and carriers
	Flow of gases in pipes. Air meters
1025	General works
1030	Air jets
	Machinery exclusive of prime movers
	Including millwork, e.g., the shafting, gearing and other driving machinery of mills and factories
	For mills of specific places see TS21+
	Cf. TS191.3 Installation and maintenance of factory machinery
1040	General works
	Power and power transmission
1045	General works
1049	General special
1051	Power transmission machinery
	Including catalogs
1053	Measurement of power. Dynamometers
1053.5	Torquemeters
1054	Speed and revolution indicators
1055	Regulation and control of power. Governors
	For steam engine governors see TJ550+
1057	Shafting
1057.4	Axles
	Cf. TF386 Rail car axles
	Cf. TF949.A9 Electric railway car axles
	Cf. TL683.A8 Airplane axles
1058	Rotors
1059	Universal joints



## Machinery exclusive of prime movers -- Continued

- 1060 Brakes  
     Cf. TF415+ Railroad brakes  
     Cf. TF949.B7 Electric railway brakes  
     Cf. TJ669.B7 Locomotive brakes  
     Cf. TJ880 Hydraulic brakes  
     Cf. TJ1377 Elevator brakes  
     Cf. TK4081 Electric brakes  
     Cf. TL269+ Automobile brakes  
     Cf. TL683.B7 Airplane brakes
- 1060.2 Shock absorbers  
     Cf. TF393 Railroads  
     Cf. TL257.5 Motor vehicles  
     Cf. TL683.S4 Airplanes
- Bearings  
     Cf. TA660.B45 Structural engineering
- General and metallic bearings
- 1061 General works
- 1063 Plain bearings. Journal bearings
- 1065 Pillow blocks, hangers, brackets
- 1067 Pivot bearings
- 1069 Collar bearings
- 1071 Antifriction devices. Ball and roller bearings
- Nonmetallic bearings  
     Including special types of bearings
- 1072 General works
- 1073.A-Z Special materials, A-Z
- 1073.C45 Ceramic
- 1073.J4 Jewel
- 1073.P6 Plastic
- 1073.R8 Rubber
- 1073.W6 Wood
- 1073.5 Hydrodynamic and hydrostatic lubrication. Gas-lubricated bearings
- 1073.6 Oil mist lubrication
- 1073.7 Magnetic bearings
- 1074 Clutches. Friction clutches  
     For automobile clutches see TL261
- Tribology. Lubrication and friction
- 1075.A2 Periodicals, societies, etc.
- 1075.A3-Z General works
- Lubricants  
     Cf. TJ789 Lubrication of motors and engines  
     Cf. TP669+ Oils, fats, etc.
- 1077 General works
- 1077.5 A-Z Special lubricants and methods, A-Z
- 1077.5 E43 Elastohydrodynamic lubrication

- Machinery exclusive of prime movers
  - Tribology. Lubrication and friction
    - Lubricants
      - Special lubricants and methods, A-Z -- Continued
  - 1078 Solid lubricants
  - 1079 Oilfeeders, etc.
  - 1081 Oil strainers, etc.
  - 1095 Traction drives
  - Belt gearing. Belt transmission
    - 1100 General works
    - 1103 Pulleys
    - 1105 Belting
    - 1107 Belt shifters, etc.
    - 1115 Rope transmission
    - 1117 Chain gearing
    - 1119 Link belting
  - Toothed gearing see TJ184+
- Machine shops and machine shop practice
  - Cf. TS200+ Metal manufactures. Metal forming
  - 1125 General works
  - 1127 Film catalogs
  - Building and arrangement of machine shops
    - 1130 General works
    - 1133 Plans for buildings and shops
  - Management of machine shops
    - Drafting-room practice see TJ227+
  - 1135 General works
  - Accounting and bookkeeping see HF5686.M2
  - 1143 Production standards. Time and motion study
  - 1146 Cost of production
  - 1148 Estimating
    - Including estimates
  - 1150 Storerooms, stockrooms, supplies
- Machine shop practice
  - 1160 General works
  - 1165 Machinists' manuals. Shop kinks, shop mathematics, repairing, etc.
  - 1166 Gages and gaging systems
  - 1167 General special
    - Including errors in workmanship, accuracy of fitting, etc.
  - 1170 Directories of dealers in machinery and supplies
  - Special companies (History, etc.) see TJ130.A+
  - 1175 Catalogs of machinery (General)
  - 1177 Safety appliances (General)
    - For safety appliances for special types of machinery, see the machinery, e. g. TS850 Woodworking

## Machine shops and machine shop practice -- Continued

## Machine tools and machining

Including design, manufacture, and use

Cf. TS215 Use of metal working machinery (General)

1180

Periodicals, societies, etc.

1183

Dictionaries and encyclopedias

1185

General works

1185.5

Automatic lines, indexing tables, transfer machines

1186

Cutting tools

Class here drill bits, milling cutters, reamers, broaches, etc.,  
treated collectivelyFor cutting tools treated individually, see the special numbers,  
e. g. TJ1263 Drills; TJ1270 Reamers

1187

Jigs and fixtures

1187.4

Spindles

1188

Machine tool drives

For electric drives, see TK4059.M32

1189

Numerical control of machine tools

For numerical control of special types of machinery, see the  
machinery, e. g. TJ1225 Milling machines

1190

Catalogs

1191

Special types of machining

Including electric spark, ultrasonic, etc.

1191.5

Micromachining

Materials used in machine and hand tools

1192

General works

Special materials

1193

Diamonds and other precious stones

1194

Plastics. Other materials (not A-Z)

Handtools

Cf. TH5618 Carpentry tools

Cf. TL1098 Space tools

Cf. TT186 Woodworking tools

1195

General works

1200

Catalogs

1201.A-Z

Special handtools, A-Z

1201.A9

Axes

Files see TJ1285

1201.H3

Hammers

1201.N8

Nut runners and setters

1201.P55

Planes

Pliers see TJ1201.T64

Saws see TJ1235

1201.S3

Scrapers

1201.S34

Screwdrivers

Shears see TJ1240

1201.S68

Squares

- Machine shops and machine shop practice
- Machine tools and machining
  - Handtools
    - Special handtools, A-Z -- Continued
    - 1201.T64 Tongs. Pliers
    - 1201.V5 Vises
    - 1201.W44 Wedges
    - 1201.W8 Wrenches
  - Special tools
    - Planing machines
      - 1205 General works
      - 1206 Planers
      - 1208 Shapers. Routing tools
        - Cf. TT203.5 Woodworking
      - 1210 Slotting and grooving machines
    - Turning machines. Screw machines
      - Cf. TT207 Metal turning
      - 1215 General works
    - Lathes
      - 1218 General works
      - 1219 Chucks
      - 1220 Boring attachments
      - 1222 Screw-cutting machines
    - Milling machines
      - For gear cutting machinery see TJ187
      - 1225 General works
      - 1227 Milling cutters
    - Cutting and sawing machinery
      - Cf. TK4660.5 Electric cutting machinery
      - 1230 General works
      - Saws
        - For sawmill machinery see TS850
        - 1233 General works
        - 1235 Saw filing
          - Cf. TJ1285 Files and filing
        - 1237 Saw sets
        - 1240 Shears
      - Perforating machinery
        - 1250 General works
        - Punching machinery
          - Cf. TS253 Punch and die work; press tool work
          - 1255 General works
          - 1257 Multiple punches
        - Drilling machinery
          - 1260 General works
          - Drills
            - Including making and tempering

	Machine shops and machine shop practice
	Machine tools and machining
	Special tools
	Perforating machinery
	Drilling machinery
	Drills -- Continued
1263	General works
1265	Catalogs
1270	Reamers
	Abrading machinery. Grinding, lapping, etc. Sharpening
	Cf. TS654.5 Electrolytic polishing
1280	General works
1285	Files and filing
	Cf. TJ1235 Saw filing
1287	Catalogs
1290	Emery wheels
1293	Grindstones
	Abrasives and polishes
1296	General works
1298	Carborundum. Silicon carbide
1300	Bending machines
	Including straightening and shaping
	Hammers. Steam hammers. Power hammers, etc.
1305	General works
1310	Riveting machines
1313	Measuring tools, rules, calipers, etc.
1315	Bench work and fitting
	Assembling machines
1317	General works
1317.5	Orienting mechanisms
	Fasteners
	Cf. TA492.A+ Special forms in metal
1320	General works
1325	Rivets
1327	Retaining rings
1328	Pins
1329	Keys and keyways. Splines
	Bolts and nuts
1330	General works
1333	Bolt cutters
1335	Taps and dies
	Screws and screw threads
1338	General works
1340	Standards
	Screw-cutting machines see TJ1222

- Machine shops and machine shop practice -- Continued
- 1345      Crushing and milling machinery  
            Cf. TE239 Stonecrushers for road material  
            Cf. TJ1225+ Milling machines  
            Cf. TJ1280+ Abrading machinery  
            Cf. TN496+ Ore-dressing, etc.  
            Cf. TP937.5 Paint machinery  
            Cf. TS2120+ Flour mills, etc.
- Hoisting and conveying machinery  
            Cf. TS180.3 Materials handling machinery
- 1350.A1      Periodicals, societies, etc.
- 1350.A2-Z      General works
- 1353      Catalogs
- 1355      Excavators  
            Cf. TA735+ Excavating machinery (Operation and use)
- Hoisting machinery  
            Cf. TJ793.3 Internal combustion engines for hoisting  
                    machinery
- 1357      Blocks and falls
- 1359      Chain blocks
- 1360      Vacuum lifters
- 1361      Shear legs, etc.
- 1362      Winches  
            Cranes and derricks
- 1363      General works
- 1365      Travelling cranes
- 1366      Lifting magnets
- 1367      Details of construction  
            Including girders and beams
- Elevators
- 1370      General works
- 1372      Specifications
- 1374      Electric elevators
- 1375      Hydraulic elevators
- 1376      Escalators
- 1377      Brakes and safety devices
- 1380      Elevator service in buildings
- 1382      Dumbwaiters
- 1383      Hoists  
            For ashes, etc.
- Conveying machinery  
            Cableways. Telferage. Wire rope transportation
- 1385      General works
- 1386      Aerial tramways  
            Cf. TN332 Mining
- 1387      Electric telfer systems

	Hoisting and conveying machinery
	Conveying machinery -- Continued
	Conveyors, belts, etc., for assembly line production.
	Endless carriers
1390	General works
1395	Catalogs
1398	Conveyors, chutes, etc., for letters, parcels, cash, etc.
1400	Passenger conveyors
1405	Coal-handling machinery
	Cf. TF294 Locomotive coaling plants
	Cf. TH4471 Coal-handling plants
	Cf. TJ898.5 Coal slurry pipelines
	Cf. TN815 Mining
1410	Ash-handling machinery
	Grain-handling machinery
	Cf. TH4461 Grain elevators
1415	General works
1417	Special systems, companies, etc.
1418	Dumping devices
	Lifting and pressing machinery
1425	General works
	Lifting jacks
1430	General works
1433	Screwjack
1435	Hydraulic jack
	Presses
1450	General works
1452	Catalogs
1455	Screw press
1460	Hydraulic presses
1465	Pneumatic presses
	Filter presses
1470	General works
1475	Catalogs
	Agricultural machinery. Farm machinery
	Cf. S671+ Utilization of agricultural machines
	Cf. S675.5 Maintenance and repair
	Cf. S677 Catalogs
1480.A1	Periodicals, societies, etc.
1480.A2-Z	General works
1482	Soil working machines: plows, harrows, cultivators, etc.
1483	Seeders, planters, etc.
1484	Machines for caring for plants
1485	Harvesters, reapers, etc.
1486	Threshing machines. Combines
1486.5	Lumbering machinery
1487	Other

- Agricultural machinery. Farm machinery
- Other -- Continued
  - Farm gas engines see TJ777.F3
  - Farm steam engines see TJ712
  - Gasoline tractors see TL233+
  - Pumps and pumping engines see TJ899+
  - Trucks see TL230+
- 1495.A-Z By region or country, A-Z
- 1496.A-Z By company, A-Z
- Sewing machines
  - Cf. TT713 Sewing machine work
- 1501 Periodicals, societies, etc.
- Exhibitions
- 1503.A1 General works
- 1503.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 1504 Dictionaries and encyclopedias
- 1505 Directories
- 1507 History
- 1510 General works
- 1512 Patents
- 1513 General special
- 1515 Manuals of instruction for users
- 1519 Trade catalogs
- Other special machinery
- 1530 Goffering machines
- 1535 Winding machines
- 1540 Screening machinery
- (1545) Packaging machinery
  - see TS196.4
- 1550 Wrapping machines
- 1555 Sorting devices
- Coin operated machines
- 1557 General works
- 1560 Vending machines
- 1570 Amusement machines



## Electrical engineering. Electronics. Nuclear engineering

For electricity in general see QC501+

For works combining mechanical and electrical engineering  
see TJ163+

For production of electric energy see TK1001+

For dynamoelectric machinery and auxiliaries see TK2000+

For distribution or transmission of electric power see  
TK3001+

## Periodicals and societies

Arrange by language of publication

1.A1 International or polyglot

1.A3-Z English

2 French

3 German

4 Other languages (not A-Z)

5 Congresses

## Exhibitions. Museums

For telegraphic exhibitions see TK5107.5.A1+

6.A1 General works

6.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

7 Collected works (nonserial)

9 Dictionaries and encyclopedias

Cf. QC505 Electrical dictionaries

11 Electrotechnical readers

12 Directories of electrical industries

For central station directories see TK1194

(13) Yearbooks

see TK1+

## History

15 General works

16 Early to 1830

17 Nineteenth century, 1830-1880

18 1880-

21-127 Country divisions (Table T1a)

Add country number in table to TK0

Including general reports of government bureaus

## Biography

139 Collective

140.A-Z Individual, A-Z

## General works

143 Before 1830

144 1830-1870

145 1870-

146 Elementary textbooks

- 147 Laboratory manuals, outlines, syllabi, etc.  
For standardizing see TK275+  
For testing see TK401
- 148 Juvenile works. Popular works  
For amateur's handbooks see TK9900+
- 151 Pocketbooks, tables, etc.
- 152 Safety measures (General)
- 153 General special  
Including electromechanical transducers
- 155 Addresses, essays, lectures
- 159 Electrical engineering as a profession  
For electrical engineering (Biography) see TK139+  
Study and teaching
- 165 General works
- 168 Problems, exercises, etc.
- 169 Examinations, questions, etc.
- America
- 171 General works  
United States
- 173 General works
- 174.A-.W States, A-W
- 175.A-Z Cities, A-Z
- Canada
- 176 General works
- 177.A-Z Special provinces, A-Z
- 178.A-Z Special cities, A-Z
- 179 Latin America
- 180 Mexico  
Central America
- 182 General works
- 183.A-Z Special countries, A-Z  
West Indies
- 185 General works
- 186.A-Z Special islands, A-Z  
South America
- 188 General works
- 189.A-Z Special countries, A-Z
- Europe
- 191 General works
- 192.A-Z Special countries, A-Z
- Asia
- 194 General works
- 195.A-Z Special countries, A-Z
- Africa
- 197 General works
- 199.A-Z Special countries, A-Z

## Study and teaching -- Continued

## Australia

201

General works

202.A-Z

Special states, A-Z

203

New Zealand

Pacific islands

204

General works

205.A-Z

Special islands, A-Z

## Special schools

## United States

210.A-Z

By school, A-Z

211.A-Z

Correspondence schools, A-Z

213.A-Z

Other countries. By school, A-Z

(215-255)

Laws and legislation relating to applications of electricity

see class K

257

## Patents

260

## Insurance requirements

Cf. TK3275 Wiring

## Electric standards and measurements

Class here works of a practical nature

For standards of special machinery or material, see the subject,  
e.g. TK2311 Dynamoelectric machinery; TK3307 Wire and  
cableFor works on the theory, experimental aspects and study of  
electrical measurements see QC535+

For testing of electric machinery see TK401

Cf. TK425 Specifications

275

## General works

277

## General special

## Electric meters

301

## General treatises

## General catalogs

308

Manufacturers' catalogs

309

Supply companies' catalogs

## Meters for special measurements

311

## Resistance meters and measurements

Including galvanometers, ohmmeters, resistance boxes,  
Wheatstone's bridge, shunts

315

## Impedance meters and measurements

321

## Potential and voltage meters and measurements

Including voltmeters, voltage detectors

325

## Voltohmmeters

For combined works on voltohmmeters and vacuum  
tube voltmeters see TK7879.2

## Electric meters

## Meters for special measurements -- Continued

331 Intensity and current meters and measurements  
Including ammeters, coulometers, ampere-hour meters,  
voltameters

335 Capacitance meters and measurements

341 Quantity meters and measurements  
Including wattmeters

351 Energy and power meters and measurements  
Including watt-hour meters, power factor meters

381 Other meters and measurements  
Including frequency meters and measurements,  
oscillographs, phase meters, synchronizers

393 Recording meters (General). Process recorders  
For special types see TK311+

396 Prepayment meters

399 Telemeter systems

401 Testing of electric machinery and appliances (General)  
For the testing of special machinery or appliances, see the  
special subject, e.g. TK2316 Machinery testing  
Cf. TK147 Laboratory manuals  
Cf. TK275+ Electric measurement

## Electrical engineering and testing laboratories

411 General works

415.A-Z Special laboratories, A-Z

425 Specifications (General)  
For specifications for special machinery, etc., see the special  
subject, e.g. TK2321 Dynamoelectric machinery

431 Drawings

435 Estimates

## Management and superintendence of electrical enterprises

Cf. TK1811 Management of electric power plant central  
stations

441 General works

445 Business getting. Soliciting

## Interconnection of power systems

447 General works

448 Automation

## General electrical manufacturing and engineering companies

For economic aspects see HD9685.A1+

451.A2 Collective

451.A3-Z Individual, A-Z

## Electric apparatus and materials

452 General works

453 Materials (General)

## Electric apparatus and materials -- Continued

## Electric circuits

Cf. TK3226 Electric-power circuits

454

## General works

454.15.A-Z

## Special circuits, A-Z

454.15.A48

## Alternating current

454.15.D57

## Direct current

454.15.E65

## Equivalent

454.15.P37

## Parallel

454.15.S47

## Series

454.2

## Electric networks

Cf. TK3226 Electric-power networks

454.4.A-Z

## Special, A-Z

454.4.C6

## Copper

454.4.E5

## Electromagnets

454.4.E9

## Explosionproof apparatus

Insulation and insulating materials see TK3401+

454.4.L3

## Laminated metals

454.4.M3

## Magnetic materials

454.4.M33

## Magnetic shielding

Meters see TK301+

Microelectromechanical systems see TK7875

454.4.P5

## Phosphors

454.4.P55

## Plastics

Cf. TK3441.P55 Plastics (Insulation)

454.4.P7

## Protective coatings

454.4.S7

## Steel

454.4.S93

## Superconductors

Cf. TK7872.S8 Superconductors (Electronics)

454.4.T3

## Talc

455

## Catalogs of electric machinery and supplies

## Theory

(500)

## Theory (General)

see TK143+

Theory of dynamoelectric machinery see TK2211

Theory of direct-current machinery see TK2615

Theory of alternating-current machinery see TK2715

Theory of the line see TK3226

## Special

531

## Current and voltage waveforms

541

## Resonance in electrical engineering

## Production of electric energy or power

For powerplants see TK1191+

For dynamoelectric machinery (General) see TK2000+

For distribution of electric power see TK3001+

1001

## General works

## Production of electric energy or power -- Continued

- 1005 General special
- 1006 Distributed generation
  - Including small-scale power generation, metropolitan plants
- 1007 Electric power systems control
- 1010 Electric power system stability
  - Including quality control
- 1020 Emergency power supply
- 1025 Security measures
- Production from heat. Cogeneration of electric power and heat
  - Cf. TK2950+ Thermoelectricity (Applied)
- 1041 General works
- 1051 Production from steam (Coal)
- 1055 Production from geothermal energy
- 1056 Production from solar thermal energy
- 1061 Production from gas
- 1071 Production from other fuels
- 1073 Ocean thermal energy conversion
- 1075 Diesel engine electric plants
- 1076 Gas turbine power plants
- 1078 Production from atomic power
- Production from waterpower. Hydroelectric power production
  - For special countries and plants see TK1421+
- 1081 General works
- 1083 Pumped storage power plants
- Production from windpower see TK1541
- Direct production from chemical action see TK2901+
- Production from solar energy
- 1085 General works
- 1087 Photovoltaic power generation. Photovoltaic power systems
  - Including building-integrated photovoltaic systems
  - Cf. TK2960 Solar batteries. Solar cells
  - Cf. TK8322 Photovoltaic cells
- Production from solar thermal energy see TK1056
- Production classified by character of the electric current
  - For distribution of electric energy (classified by character of the electric current) see TK3101+
- General works see TK1001+
- Direct-current engineering
  - Cf. TK2611+ Direct-current dynamoelectric machinery
- 1111 General works
- 1121 Edison three-wire system
- Alternating-current engineering
  - Cf. TK2711+ Alternating-current machinery

## Production of electric energy or power

## Production classified by character of the electric current

## Alternating-current engineering -- Continued

- 1141 General works
- 1145 Single-phase currents
- 1151 Two-phase currents
- Polyphase currents
  - Cf. TK2745+ Polyphase-current machinery
- 1161 General works
- 1165 Three-phase currents
- 1168 Multiphase currents

## Electric power plants (General)

Including light and powerplants

For special types see TK1001+

For dynamoelectric machinery and auxiliaries see  
TK2000+

For central stations wiring see TK3281

For electric lighting stations see TK4201+

For telegraph power production see TK5371

For telephone power production see TK6271+

Cf. TH4581+ Construction of powerplants

- 1191 General works
- 1193 Special regions or countries, A-Z
- 1194 Directories
  - Cf. TK12 Directories of electrical industries

## Special

- 1221-1327 Power plants utilizing heat energy (Table T1a)
  - Add country number in table to TK1200
  - Cf. TK1041+ Production of electric energy from heat
- Power plants utilizing nuclear power
  - Cf. TK1078 Production of electric energy from  
nuclear power

## America

- 1341 General works
- United States
  - 1343 General works
  - 1344.A-W States, A-W
  - 1345.A-Z Cities, A-Z
- Canada
  - 1346 General works
  - 1347.A-Z Special provinces, A-Z
  - 1348.A-Z Special cities, A-Z
- 1349 Latin America
- 1350 Mexico
- Central America
  - 1352 General works

	Production of electric energy or power
	Electric power plants (General)
	Special
	Power plants utilizing nuclear power
	America
	Central America -- Continued
1353.A-Z	Special countries, A-Z
	West Indies
1355	General works
1356.A-Z	Special islands, A-Z
	South America
1358	General works
1359.A-Z	Special countries, A-Z
	Europe
1361	General works
1362.A-Z	Special countries, A-Z
	Asia
1364	General works
1365.A-Z	Special countries, A-Z
	Africa
1367	General works
1369.A-Z	Special countries, A-Z
	Australia
1371	General works
1372.A-Z	Special states, A-Z
1373	New Zealand
	Pacific islands
1374	General works
1375.A-Z	Special islands, A-Z
1421-1527	Power plants utilizing waterpower (Table T1a)
	Add country number in table to TK1400
	Cf. TK1081+ Production of electric energy from waterpower
1541	Power plants utilizing wind
	Power plants utilizing both heat and waterpower see TK1221+
1545	Power plants utilizing solar energy
	Cf. TK1056 Production of electric power from solar thermal energy
1560	Power plants utilizing other power
1751	Substations
1811	Central station management
	For machine operators' manuals see TK2184
	For electric lighting (Central station management) see TK4238



- Production of electric energy or power
- Electric power plants (General) -- Continued
- 1831 Central station testing
  - Cf. TK2316 Testing of dynamoelectric machinery
- 1841 Electric power rates
  - Cf. HD9685.A1+ Economic aspects
  - Cf. TK21+ Special places
- Dynamoelectric machinery and auxiliaries
  - Including motive power, machinery and auxiliaries
  - For production of electric energy see TK1001+
  - For powerplants see TK1191+
  - For auxiliaries (General) see TK2811+
- 2000 General works
- Dynamoelectric machinery
  - Including both direct and alternating-current generators, motors, etc.
- 2081 Special motive power and driving apparatus for dynamoelectric machinery
- General works
- 2181 Treatises
- 2182 Elementary textbooks
- 2184 Operators' manuals
- Amateurs' handbooks of generator and motor construction see TK9911
- 2189 General special
- 2211 Theory
  - For theory of direct-current machinery see TK2615
  - For theory of alternating-current machinery see TK2715
- 2271 Eddy currents in electrical engineering
- 2281 Commutation and brush resistance
  - Cf. TK2481 Commutation
- 2311 Standards
- 2313 Monitoring
- 2316 Testing
  - For central station testing see TK1831
  - For generators and motors see TK2433
  - For direct-current machinery see TK2623
  - For alternating-current machinery see TK2723
- 2321 Specifications
- 2325 Machine drawing for electrical engineers
- 2331 Design and construction
  - For generators and motors see TK2435
  - For direct-current machinery see TK2625
  - For alternating-current machinery see TK2725

## Dynamoelectric machinery and auxiliaries

## Dynamoelectric machinery -- Continued

2341

## Types of dynamoelectric machinery

For generators see TK2441+

For motors see TK2537

For direct-current machinery see TK2631

For alternating-current machinery see TK2731

2391

## General special

Including automata, coils, etc.

## Generators (General) (D.C. and A.C.). Dynamos

Including works treating of both generators and motors

For direct-current generators see TK2661+

For alternating-current generators see TK2761+

For machinery for electric lighting see TK4241

For amateurs' handbooks of generator construction see  
TK9911

2411

## General works

2433

## Testing of generators and motors

2435

## Design and construction of generators and motors

For design of details see TK2451+

For design of direct-current generators see TK2625

For design of alternating-current generators see  
TK2761+

## Types of generators

For direct-current generators see TK2665

For alternating-current generators see TK2765

2441

## General works

2448

## Variable speed generators

## Details

2451

## General works

## Special

## Mechanical details

2456

## General works

2458.A-Z

## Special, A-Z

2458.B4

## Bearings

2458.F68

## Foundation

2458.S5

## Shafting

## Magnetic details

2461

## General works

## Special

2464

## Field yoke

2465

## Field poles

2466

## Field shoes

## Electrical details

2471

## General works

## Special

- Dynamoelectric machinery and auxiliaries
  - Dynamoelectric machinery
    - Generators (General) (D.C. and A.C.). Dynamos
      - Details
        - Special
          - Electrical details
            - Special -- Continued
              - Winding
                - General works
                  - 2474
                  - 2475
                  - 2477
                  - 2481
                  - Field winding and spools
                    - 2484
                    - 2487
                    - 2488
                    - 2491
                    - Armature winding and armatures
                      - Commutators and collectors
                        - For commutation see TK2281
                        - Brush holders and brushes
                        - Shunts. Leads
                        - Terminals
                        - General special
    - Motors (General) (D.C. and A.C.)
      - For works treating of generators and motors together see TK2411+
      - For direct-current motors see TK2681
      - For alternating-current motors see TK2781+
      - For use of electric motors see TK4055+
  - 2511 Treatises
    - 2514 Elementary textbooks
      - (2535) Amateurs' handbooks
        - see TK9911
    - 2537 Types
      - For railway motors see TF935
    - 2541 Details
      - For details in common with generators see TK2451+
    - 2551 Transforming machinery (D.C. and A.C.)
      - For direct-current transforming machinery see TK2691+
      - For alternating-current transforming machinery see TK2791+
      - For amateurs' handbooks of transformer construction see TK9915
    - Direct-current machinery
      - For direct-current engineering see TK1111+
      - General works
        - Treatises
          - 2611
          - 2612
          - 2615
          - Textbooks
            - Theory
              - Including short-circuited currents in armatures
      - 2623 Testing of D.C. machinery

- Dynamoelectric machinery and auxiliaries
  - Dynamoelectric machinery
    - Direct-current machinery -- Continued
    - 2625 Design and construction
    - 2631 Types
      - Details see TK2451+
    - 2644 General special
    - Special direct-current machinery
      - Direct-current generators
        - 2661 General works
        - Design see TK2625
      - 2665 Types
        - Including constant-potential generators, low voltage generators, constant-current generators, commutation pole generators
        - Details see TK2451+
    - 2681 Direct-current motors
    - Direct-current transforming machinery
      - 2691 General works
      - Special
        - 2692 Inverters
        - 2693 Dynamotors
        - 2695 Motor generators
        - 2697 Boosters
      - 2699 Other direct-current machinery
  - Alternating-current machinery
    - Cf. TK1141+ Alternating-current engineering
    - General works
      - 2711 Treatises
      - 2712 Textbooks
      - 2715 Technique of alternating-current machinery
        - Including "hunting" fields, parallel driving
      - 2723 Testing of alternating-current machinery
      - 2725 Design and construction
      - 2731 Types of alternating-current machinery
        - Including synchronous, polyphase, etc.
        - Details see TK2451+
      - 2744 General special
      - Special classes of alternating-current machinery
        - 2745 Polyphase-current machinery
          - For polyphase currents see TK1161+
        - Alternating-current generators
          - 2761 General works
          - 2765 Types
        - Alternating-current motors
          - 2781 General works

- Dynamoelectric machinery and auxiliaries
    - Dynamoelectric machinery
      - Alternating-current machinery
        - Special classes of alternating-current machinery
          - Alternating-current motors -- Continued
            - Types
              - 2785 Induction, asynchronous and polyphase motors.
                - Squirrel-cage motors
                - Starting compensators see TK2851
              - 2787 Synchronous motors
              - 2789 Repulsion motors. Repulsion induction motors.
                - Commutator motors. Series-wound motors
      - Alternating-current transforming machinery
        - D.C. to A.C. transforming machinery
          - 2791 General works
            - A.C. transformers. Autotransformers or compensators. "Current" transformers
          - 2792 General works
          - 2794 Types
            - A.C. to D.C. transforming machinery
          - 2795 General works
          - 2796 Converters. Rotaries
          - 2797 Motor-generator sets (A.C. synchronous or induction motors)
            - Including cascade converters (i.e. induction motor-dynamo; secondary winding of motor and armature of generator in cascade)
        - 2798 Other A.C. to D.C. transformers. Aluminum cells
          - Cf. TK7871.7+ Electron tubes
      - 2799 Other alternating-current machinery
        - Including frequency converters
- 2805 Condensers
- Apparatus auxiliary to dynamoelectric machinery
  - 2811 General works
    - Switchboards and accessories
      - Including switchboard meters, switches, rheostats
      - For switchboards for electric power for telephones see TK6271+
      - For switchboards for telephone line connections see TK6391+
    - 2821 General works
    - 2822 Direct current
    - Alternating current
      - 2825 General works
      - 2826 Low tension A.C.
      - 2828 High tension A.C.

- Dynamoelectric machinery and auxiliaries
  - Apparatus auxiliary to dynamoelectric machinery
  - Switchboards and accessories -- Continued
- 2831 Switches
- Circuit breakers and fuses
- 2841 General works
- 2842 Circuit breakers
- 2846 Fuses and "Cutouts"
  - For fuses (General) see TK3511
- 2851 Rheostats. Regulators. Controllers. Starters
  - For controllers or starters for electric cars see TF930
- 2861 Relays
- 2891 Accumulators in central stations
- Devices for production of electricity by direct energy conversion
  - Cf. TL783.54+ Rocket engine propulsion
- 2896 General works
- 2897 Energy harvesters
  - Including microharvesters
- Production of electricity directly from chemical action
- 2901 General works
- Special apparatus
  - For amateurs' manuals see TK9917
- 2921 Primary cells
  - For special types see TK2945.A+
- Fuel cells
- 2931 General works
- 2933.A-Z Special devices, A-Z
  - 2933.D57 Direct methanol fuel cells
  - 2933.M65 Molten carbonate fuel cells
  - 2933.P76 Proton exchange membrane fuel cells
  - 2933.S65 Solid oxide fuel cells
- 2941 Storage batteries. Rechargeable batteries. Secondary cells
  - For accumulators in central stations see TK2891
  - For special types see TK2945.A+
- 2942 Solid state batteries
- 2943 Battery chargers
- 2945.A-Z Other special batteries or energy storage materials, A-Z
- 2945.C37 Carbon
  - Fuel cells see TK2931+
- 2945.L42 Lead-acid
- 2945.L58 Lithium
- 2945.N52 Nickel-cadmium
- 2945.N53 Nickel-hydrogen
- 2945.S63 Sodium-sulfur

- Devices for production of electricity by direct energy conversion
- Production of electricity directly from chemical action
  - Special apparatus
    - Other special batteries or energy storage materials, A-Z -
    - Continued
    - Solid state batteries see TK2942
    - Thermal batteries see TK2953
- 2945.Z55 Zinc
- Thermoelectricity (Applied)
- 2950 General works
- Special apparatus
- 2953 Thermal batteries
- 2955 Thermionic converters
- 2960 Solar batteries. Solar cells
  - Cf. TJ812.5 Solar engines
  - Cf. TK1056 Production of electric power from solar thermal energy
  - Cf. TK1087 Photovoltaic power generation. Photovoltaic power systems
  - Cf. TK8322 Photovoltaic cells
  - Cf. TK9918 Amateur construction
  - Cf. TL1100+ Electric equipment on space vehicles
- 2965 Atomic batteries. Isotopic power generators
- 2970 Magnetohydrodynamic generators
  - Cf. TL783.6 Plasma rockets
  - Cf. TL1102.G4 Generators
- 2975 Electrohydrodynamic generators
- Electric energy storage
  - Cf. TK1081+ Pumped storage power plants
  - Cf. TK2805 Condensers
  - Cf. TK2891 Storage batteries
- 2980 General works
- 2985 Magnetic energy storage
- 2986 Pulsed power systems
- Distribution or transmission of electric power
  - Including the electric-power circuit
  - Cf. TK1001+ Production of electric energy
- 3001 General works
- 3070 Automatic control
  - For smart power grids see TK3105
- 3081 Testing of distribution systems
  - For the line and component parts see TK3207
- 3084 Earthquake effects
- 3085 Lightning protection
- 3091 General special

Distribution or transmission of electric power -- Continued  
Systems

For overhead and underground systems see TK3221+

For electric lighting (Systems) see TK4303+

3101 General works. Tapping of line for various uses

3105 Smart power grids

3107 Transformation of electricity (General)

For transforming machinery see TK2551

3111 Direct-current systems

Cf. TK1111+ Direct-current engineering

## Alternating-current systems

Cf. TK1141+ Alternating-current engineering

3141 General works

3142 Low tension A.C. systems (to 500 volts)

3143 Medium tension A.C. systems (500-10,000 volts)

3144 High tension A.C. systems (above 10,000 volts)

3148 Flexible AC transmission systems

3151 Single-phase current systems

3153 Two-phase current systems

## Polyphase current systems

3155 General works

3156 Three-phase current systems

3158 Multiphase current systems

3159 Polycyclic systems

Class here combinations of single and two-phase currents  
transmitted over single line and used as single and  
two-phase current at point of application

3171 Composite systems (A.C. and D.C.)

## Wiring

Including central station, line and user's plant

For special wiring, see the subject, e.g. TK4255, Electric  
lighting; TK5441, Telegraph; TK6341 Telephone

For the line (General) see TK3221+

3201 General works

3205 Pocketbooks, tables, diagrams, etc.

For tables of properties and dimensions of wire see  
TK3305

3207 Testing of line and component parts

For distribution system testing see TK3081

For wire see TK3307

3211 General special

## The line

3221 General works



## Distribution or transmission of electric power

## Wiring

## The line -- Continued

- 3226      Technique of the line. Electric-power circuits and networks  
             Including induction capacity, etc., of parallel lines, heat losses of overhead lines and underground lines  
             Cf. TK454+ Electric circuits (Apparatus)  
             Cf. TK454.2 Electric networks (Apparatus)  
             Cf. TK7872.T74 Electronic circuits

- 3227      Grounding  
             Aerial or overhead lines and component parts  
             For telegraph overhead lines see TK5452+  
             For telephone overhead lines see TK6352

- 3231      General works

- 3239      Catalogs

## Details

- 3242      Poles, crossarms and towers

- 3243      Pole supports

- 3246      Line insulators. Testing of insulators  
             Cf. TK3431 Testing of insulating material

- 3248      Lightning arresters (General)

## Underground lines and component parts

- For telegraph underground lines see TK5465+  
 For telephone underground lines see TK6365

- 3251      General works

- 3255      General special  
             Including electrolysis due to underground systems  
             Cf. TF912 Stray currents from electric traction

- 3258      Specifications

- 3261      Details  
             Including conduits, manholes  
             For cables see TK3351

## Interior or indoor wiring

- 3271      General works

- 3275      Insurance underwriters' requirements

- 3278      Specifications

- 3281      Central station wiring

- 3283      Factory wiring

- 3284      Commercial building wiring

- 3285      House wiring

## Conductors. Wires. Cables

- For telegraph wire and cable see TK5481  
 For telephone wire and cable see TK6381+

- 3301      General works

- 3303      Juvenile works

## Distribution or transmission of electric power

## Conductors. Wires. Cables -- Continued

3305 Tables of properties and dimensions of wire

Cf. TK3205 Pocketbooks of wiring

3307 Standards and testing of wire and cable

For testing of the line (General) see TK3207

3311.A-Z Conductors, A-Z

3311.A6 Aluminum

3311.C6 Copper

3311.G3 Gases

3311.P6 Polymers

3321 Bare wires

Insulated wires

3331 General works

3335 Testing

Cf. TK3431 Insulating material

3351 Cables

For submarine cables see TK5661+

## Insulation and insulating material

3401 General works

Insulating material

3421 General works

3431 Testing

For insulators see TK3246

For insulated wire and cables see TK3335

3441.A-Z Special insulating materials, A-Z

3441.C35 Cellulose

3441.C38 Ceramics

3441.E6 Epoxy resins

3441.F55 Fluorine organic compounds

3441.G3 Gases

3441.G5 Glass

3441.L5 Liquids

3441.M4 Metallic oxides

3441.O5 Oil

3441.P25 Paper

3441.P55 Plastics

3441.P58 Polymers

3441.S46 Silicon nitride

3441.S47 Silicon organic compounds

3441.S48 Siloxanes

3441.S5 Slate

3441.S8 Sulfur hexafluoride

3441.V3 Varnish

Other details

|          |  |
|----------|--|
|          | Distribution or transmission of electric power |
|          | Other details -- Continued                     |
| 3511     | Fuses (General)                                |
|          | For fuses for switchboards see TK2846          |
| 3521     | Connectors                                     |
|          | Applications of electric power                 |
| 4001     | General works                                  |
|          | Electric railways see TF854.2+                 |
| 4015     | General special                                |
|          | Special applications                           |
| 4018     | Agriculture and the farm                       |
|          | Cf. HD9688 Rural electrification               |
| 4025     | School building equipment                      |
| 4035.A-Z | Other special, A-Z                             |
| 4035.A35 | Air conditioning                               |
|          | Airplanes see TL690+                           |
| 4035.A6  | Apartment houses                               |
| 4035.B83 | Building materials industry                    |
| 4035.C25 | Cement industries                              |
| 4035.C35 | Chemical laboratories                          |
| 4035.C37 | Chemical plants                                |
| 4035.C4  | Clothing factories                             |
| 4035.C47 | Clubhouses                                     |
| 4035.C6  | Coke industry                                  |
|          | Commercial buildings see TK4035.M37            |
| 4035.F3  | Factories (General)                            |
| 4035.F6  | Flour mills                                    |
| 4035.F67 | Food industry                                  |
| 4035.H3  | Harbors  |
|          | Health facilities and hospitals see RA969.48   |
|          | Heating (Building construction) see TH7409+    |
|          | Heating (Electrical engineering) see TK4601+   |
| 4035.H6  | Hoisting machinery                             |
| 4035.H9  | Hydraulic structures                           |
| 4035.K58 | Knit goods industry                            |
| 4035.L4  | Leather industry                               |
| 4035.M37 | Mercantile buildings. Commercial buildings     |
| 4035.M4  | Metallurgical plants                           |
| 4035.M6  | Motion picture theaters                        |
| 4035.N6  | Nonferrous metal industries                    |
| 4035.O7  | Ore-dressing plants                            |
| 4035.P3  | Paper industry                                 |
| 4035.P33 | Peat industry                                  |
| 4035.P35 | Petroleum engineering                          |
| 4035.P53 | Photographic equipment                         |
| 4035.P55 | Pipelines                                      |

## Applications of electric power

## Special applications

## Other special, A-Z -- Continued

|          |   |
|----------|---|
| 4035.R3  | Railroad repair shops                     |
| 4035.R4  | Refrigeration and refrigerating machinery |
| 4035.R46 | Restaurants                               |
| 4035.R6  | Rolling mills                             |
| 4035.R82 | Rubber industry                           |
| 4035.S4  | Service industries                        |
| 4035.S5  | Shipyards                                 |
| 4035.S7  | Steelworks                                |
| 4035.S9  | Sugar factories                           |
| 4035.T4  | Textile factories                         |

## Mechanical applications of electric power

|      |               |
|------|---------------|
| 4050 | General works |
|------|---------------|

## Use of electric motors

|      |                 |
|------|-----------------|
| 4055 | General works   |
| 4057 | General special |

Including motor repairers' manuals

Cf. TK3205 Wiring manuals, etc.

## Electric driving

|          |                                   |
|----------|-----------------------------------|
| 4058     | General works                     |
| 4059.A-Z | Special, A-Z                      |
| 4059.C64 | Compressors                       |
| 4059.C65 | Construction equipment            |
| 4059.C67 | Conveying machinery               |
| 4059.D4  | Deck machinery                    |
| 4059.D73 | Dredges                           |
| 4059.E9  | Excavating machinery              |
| 4059.F35 | Fans                              |
| 4059.H64 | Hoisting machinery                |
| 4059.K55 | Knitting machines                 |
| 4059.M32 | Machine tools                     |
| 4059.M55 | Mining machinery                  |
| 4059.P74 | Printing presses, machinery, etc. |
| 4059.P85 | Pumping machinery                 |
| 4059.R64 | Rolling mill machinery            |
| 4059.S55 | Sluice gates                      |
| 4059.T48 | Textile machinery                 |
| 4059.T87 | Turbomachines                     |
| 4059.W56 | Winding machines                  |
| 4081     | Electric brakes                   |

## Applications of electric power

## Mechanical applications of electric power

## Use of electric motors -- Continued

## Electric calculating machines

Class here also works that discuss both electric calculating machines and computers

For works on computers only see TK7885+

Cf. HF5679 Machine methods in accounting

Cf. QA71+ Calculating machines (Mathematics)

4090

## General works

## Special machines

## Accounting machines

4100

## General works

4101.A-Z

## Special. By make, A-Z

e.g.

4101.I5

## International Business Machines Corporation

4102

## Billing machines

## Electric lighting

Cf. TH7700+ Domestic illumination

4125

## Periodicals, societies, etc.

4129

## Dictionaries and encyclopedias

4131

## History

## Special countries

Including annual reports of electric lighting departments

Cf. HD4486+ Municipal industries

Cf. TK4220+ Special plants

## America

4134

## General works

## United States

4135

## General works

4136.A-W

## States, A-W

4137.A-Z

## Cities, A-Z

## Canada

4138

## General works

4139.A-Z

## Special provinces, A-Z

4140

## Mexico

## Central America

4141

## General works

4142.A-Z

## Special countries, A-Z

## West Indies

4143

## General works

4144.A-Z

## Special islands, A-Z

## South America

4145

## General works

4146.A-Z

## Special countries, A-Z

## Europe

- Electric lighting
  - Special countries
    - Europe -- Continued
      - 4147 General works
      - 4148.A-Z Special countries, A-Z
    - Asia
      - 4149 General works
      - 4150.A-Z Special countries, A-Z
    - Africa
      - 4151 General works
      - 4152.A-Z Special countries, A-Z
    - Australia
      - 4153 General works
      - 4154.A-Z Special states, A-Z
    - 4154.5 New Zealand
    - Pacific islands
      - 4155 General works
      - 4156.A-Z Special islands, A-Z
  - General works
    - 4160 Early to 1870
    - 4161 1870-
    - 4162 Elementary textbooks
    - 4164 Electricians' manuals
    - 4166 Pocketbooks, tables, etc.
    - Wiring for electric lighting see TK4255
    - Amateurs' handbooks see TK9921
    - 4169 General special
    - 4175 Technique. Theory of electric lighting
      - Including candlepower, light distribution
    - 4181 Specifications
      - For incandescent lighting see TK4348
    - 4186 Management of electric lighting enterprises
      - For management of electric lighting plants see TK4238
    - 4188 Special aspects of electric lighting
      - Including city or metropolitan lighting, rural lighting, indirect lighting, lighting of roads
    - Lighting machinery and supplies
      - Including catalogs
      - Cf. TK455 Electric machinery and supplies
    - 4195 General works
    - 4198 Fixtures
      - For gas and electric fixtures combined see TH7960+
  - Central stations for lighting
    - 4201 General works
    - 4218 General special
    - Special lighting plants

## Electric lighting

## Central stations for lighting

## Special lighting plants -- Continued

4219

General works

## Special lighting plants utilizing heat energy

4220

United States

4221

Canada

4223.A-Z

Other American countries, A-Z

4224

Other (Asia, Africa, Australia, and Oceania)

## Special lighting plants utilizing waterpower

4225

United States

4226

Canada

4228.A-Z

Other American countries, A-Z

4229

Other (Asia, Africa, Australia, and Oceania)

## Special lighting plants utilizing both heat and waterpower

4230

United States

4231

Canada

4233.A-Z

Other American countries, A-Z

4234

Other (Asia, Africa, Australia, and Oceania)

4237

## Substations

4238

## Management of electric lighting plants

Cf. TK4186 Electric lighting enterprises

4241

## Machinery for electric lighting

For operators' manuals see TK2184

For electric generators see TK2411+

## Distribution in electric lighting

4251

## General works

4255

## Wiring for electric lighting. Installation

For insurance underwriters' requirements see TK3275

For pocketbooks and tables for electric lighting see

TK4166

## Systems of electric lighting

General and miscellaneous, see TK4160+

4303

## Direct-current systems

4304

## Alternating-current systems

4308

## Composite systems (D.C. and A.C.)

4310

## Electric lamps (General)

## Arc lighting

4311

General works

4319

General special

## Arc lamps and systems

4321

General works

4322

Types. Open and enclosed arcs

Prefer TK4329

4329.A-Z

Special lamps and systems. By name, A-Z

Details

- Electric lighting
  - Systems of electric lighting
    - Arc lighting
      - Arc lamps and systems
        - Details -- Continued
        - General works
          - 4331
          - 4335
        - Carbons
          - For manufacture of carbons see TK7725
    - Incandescent lighting
      - General works. Handbooks. Pocketbooks
        - 4341
        - 4348
        - 4349
      - Specifications
      - General special
        - Including safety measures
      - Incandescent lamps and special systems
        - General works
          - 4351
          - 4352
        - Types. Carbon and metal filament lamps
        - Special lamps and systems. By name, A-Z
          - 4359.A-Z
          - 4359.H34
          - 4359.N47
          - 4359.T9
        - Halogen lamps
        - Nernst lamps and systems
        - Tungsten lamps
        - Details. Wall plugs, sockets, etc.
      - General works
        - 4361
        - 4365
        - 4367
      - Filaments
      - Tests of efficiency of incandescent lamps
  - Electric discharge lighting
    - Cf. TK4311+ Arc lighting
    - General works
      - 4371
      - 4381
    - Vapor lamps and systems
      - Including mercury vapor lamps
    - Glow lamps
      - 4382
    - Neon lamps and tubes
      - 4383
    - Fluorescent lamps and systems
      - 4386
    - LED lamps and systems
      - 4388
    - Other lamps and systems (not A-Z)
      - 4391
- Private electric-light plants for country houses, etc.
  - 4395
- Special uses of electric lighting, A-Z
  - 4399.A-Z
    - Auditoriums
      - 4399.A9
    - Building sites
      - 4399.B8
    - Coal preparation plants
      - 4399.C6
    - Cf. TN309 Electric lighting of mines
    - Dwellings see TK4255
    - Emergency lighting
      - 4399.E5
    - Factories. Workshops
      - 4399.F2
    - Farm buildings
      - 4399.F3
    - Floodlighting
      - 4399.F55
    - Hotels
      - 4399.H7



## Electric lighting

Special uses of electric lighting, A-Z -- Continued

Interior decoration, Lighting as an element in see

NK2115.5.L5

4399.I7 Iron and steel works

4399.M5 Mills

4399.O35 Office buildings

4399.P44 Pedestrian areas

4399.P5 Physical education facilities

4399.P6 Power plants

4399.P8 Public buildings

4399.R4 Recreation areas

4399.S4 Searchlights

Ships see VM493

4399.S5 Show windows

4399.S6 Signs

Cf. TK4383 Neon lamps and tubes

4399.S63 Sports facilities

4399.S8 Stores, Retail

Streets see TK4188

4399.T6 Theaters

Cf. PN2091.E4 Electric devices for the stage, and  
stage lighting

Cf. TR891 Lighting for motion pictures

(4500) Infrared technology  
see TA1570

## Electric heating

For rheostats and controllers see TK2851

4601 General works

4635 Infrared heating

Special applications of electric heating

Electric space heating see TH7409+

Electric cooking stoves see TX657.S5

Electric cooking see TX827

Thawing of water pipes see TH6685

4660 Electric welding

4660.5 Electric cutting

4661 Electric furnaces

Cf. QD157 Inorganic chemistry

Cf. QD277 Organic chemistry

Cf. TN687 Electric metallurgy

Cf. TP841+ Ceramic industries

Electric ignition devices for gas lighting in buildings see  
TH6885+

Electric ignition devices for automobiles see TL213

## Telecommunication

Class here general works only. For works on special systems,  
see the subject

Cf. QA268 Coding theory

5101.A1

Periodicals, societies, congresses, etc.

5101.A3-Z

General works

Exhibitions

5101.5.A1

General works

5101.5.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

5102

Dictionaries and encyclopedias

5102.2

History

5102.3.A-Z

By region or country, A-Z

5102.4

Juvenile works

5102.5

General special

Biography

5102.54

Collective

5102.56.A-Z

Individual, A-Z

5102.6

Telecommunication as a profession

Study and teaching. Research

5102.7

General works

5102.8.A-Z

By region or country, A-Z

5102.83

Mathematical models. Computer simulation

5102.84

Quality control

5102.85

Security measures

5102.86

Sustainable practices. Energy conservation

5102.9

Signal processing

Coding theory

For application in special field, see the field

5102.92

General works

5102.94

Cryptographic techniques

5102.96

Error correction

5102.98

Echo suppression

5102.985

Traffic

For works on traffic in specific systems, see the system,

e.g., Computer network management see

TK5105.548+

Apparatus and supplies

5103

General works

5103.12

Wiring

5103.15

Telecommunication lines

Modems see TK7887.8.M63

Wireless communication systems. Mobile communication  
systems

5103.2

General works

5103.26

Bit-interleaved coded modulation

## Telecommunication

## Wireless communication systems -- Continued

- 5103.3 Bluetooth
- 5103.35 Body area networks
  - Cf. TK5105.7+ Local area networks
- Broadband communication systems
- 5103.4 General works
  - Asynchronous transfer mode see TK5105.35
- 5103.45 Spread spectrum communications
- 5103.4515 Ultra-wideband communication systems
- 5103.452 CDMA
- 5103.48 CDPD (Standard)
- 5103.4815 Cognitive radio networks
- 5103.4817 Frequency division multiple access
  - Including single-carrier frequency division multiple access
- 5103.482 General Packet Radio Service
- 5103.483 Global system for mobile communications
- 5103.48323 Indoor positioning systems
- 5103.48325 Long-Term Evolution
- 5103.4833 Microwave communication systems
- 5103.4835 Millimeter wave communication systems
- 5103.4836 MIMO systems
- 5103.4837 Mobile device forensics
- 5103.484 Orthogonal frequency division multiplexing
- 5103.485 Personal communication service systems
- 5103.486 TDMA
- 5103.487 Broadcast data systems
- 5103.4873 Radio resource management
- 5103.4874 Roaming
- 5103.4875 Software radio
  - Radio data systems see TK6570.R27
  - Teletext systems see TK6679.7
- 5103.4877 Space time codes
- 5103.488 Trunked radio. TETRA
- 5103.4883 Universal Mobile Telecommunications System
- 5103.4885 Wireless Internet
  - Wireless LANs see TK5105.78
- 5103.4895 Wireless localization
- 5103.5 Information display systems
- 5103.52 Acoustical telecommunication systems
  - Including underwater acoustic telemetry
- 5103.57 Molecular communication
- Optical communications
- 5103.59 General works
- 5103.592.A-Z Special topics, A-Z
- 5103.592.F52 Fiber optics. Optical fiber communication

## Telecommunication

## Optical communications

## Special topics, A-Z -- Continued

5103.592.F73

Free space optics

Optical fiber communication see TK5103.592.F52

5103.592.O68

Optical fiber subscriber loops

5103.592.P38

Passive optical networks

5103.592.Q83

Quantum communications

5103.592.W38

Wavelength division multiplexing

5103.6

Laser communications systems

Cf. TA1671+ Lasers

## Digital communications

5103.7

General works

Synchronous data transmission systems see TK5105.4+

5103.75

Integrated services digital networks

5103.78

Digital subscriber lines

5103.8

## Switching systems

Packet switching see TK5105.3+

## Artificial satellites in telecommunication

Cf. HE9719+ Economics

5104

General works

5104.2.A-Z

Special systems and projects, A-Z

5104.2.A38

Advanced Communications Technology Satellite

5104.2.A72

'Arabsāt

5104.2.A75

ASTRA

5104.2.D5

Dioscures project

5104.2.E29

ECS satellites

5104.2.H46

Hermes

5104.2.I25

INSAT

5104.2.O49

Olympus

5104.2.P33

PACSAT

5104.2.P35

Palapa project

5104.2.R4

Relay

5104.2.S5

Skynet Project

5104.2.T4

Telstar

5104.2.V74

VSATs

## Data transmission systems

5105

General works

Wireless communication systems see TK5103.2+

5105.15

Multimedia communications

5105.2

Picture transmission systems. Image transmission

Cf. TK5103.75 Integrated services digital networks

Cf. TK6505 Video telephone

Cf. TK6600 Phototelegraphy

Cf. TK6710+ Facsimile transmission

Packet switching

## Telecommunication

## Data transmission systems

## Packet switching -- Continued

- 5105.3 General works
- 5105.35 Asynchronous transfer mode
- 5105.38 Frame relay
- 5105.383 Packet transport networks
- 5105.386 Streaming technology
- Synchronous transfer systems
- 5105.4 General works
- 5105.415 SONET
- 5105.42 Synchronous digital hierarchy
- 5105.45 TMN

## Computer networks

For application in special field, see the field

- 5105.5 General works
- Computer network architectures
- 5105.52 General works
- 5105.525 Peer-to-peer architecture
- Apparatus and supplies
- 5105.53 General works
- 5105.543 Bridges. Routers. Gateways
- 5105.5457 Network processors
- 5105.546 Networks on a chip
- Computer network management
- 5105.548 General works
- 5105.5485 Monitoring
- Routing
- 5105.5487 General works
- 5105.54873.A-Z Special topics, A-Z
- 5105.54873.A33 Adaptive routing
- 5105.54873.D56 Dimension-ordered routing
- 5105.54873.H54 Hierarchical routing
- 5105.54873.H68 Hot potato routing
- Routers see TK5105.543
- 5105.54873.S45 Self-routing
- 5105.54873.W67 Wormhole routing
- Computer network protocols. Standards
- 5105.55 General works
- 5105.553 ASN.1
- 5105.555 BGP
- 5105.56 CEBus
- 5105.565 CGI
- 5105.5665 File Transfer Protocol
- 5105.5667 HTTP
- 5105.5668 IEEE 802.11

## Telecommunication

## Computer networks

## Computer network protocols. Standards -- Continued

|             |   |
|-------------|---|
| 5105.567    | IPSec   |
| 5105.5675   | IS-IS   |
| 5105.5677   | iSCSI   |
| 5105.568    | JXTA  |
| 5105.572    | L2TP  |
| 5105.5725   | LDAP  |
| 5105.573    | MPLS  |
| 5105.574    | Network File System                                   |
| 5105.575    | Network Time Protocol                                 |
| 5105.577    | Open Document Architecture                            |
| 5105.578    | Open Shortest Path First                              |
| 5105.58     | Open Systems Interconnect                             |
| 5105.582    | PPP   |
| 5105.5825   | RADIUS  |
| 5105.5828   | Service-oriented architecture                         |
| 5105.583    | Simple Network Management Protocol (SNMP)             |
| 5105.5833   | Software-defined networking (SDN)                     |
| 5105.5835   | Stream Control Transmission Protocol                  |
| 5105.585    | TCP/IP  |
| 5105.586    | TINA  |
| 5105.5863   | WebDAV  |
| 5105.5864   | WHOIS   |
| 5105.5865   | Wireless application protocol (WAP)                   |
| 5105.587    | X.500   |
| 5105.59     | Computer network security                             |
| 5105.595    | Directory services                                    |
| 5105.5956   | Quality of service. Reliability                       |
|             | Including network performance                         |
| 5105.597    | Remote access   |
| 5105.6      | Telematics  |
| 5105.65     | Location-based services                               |
| 5105.66     | Cross-layer designs                                   |
| 5105.67     | Machine-to-machine communications                     |
|             | Local area networks                                   |
| 5105.7      | General works   |
| 5105.72     | Ring networks   |
|             | Electronic mail systems                               |
|             | Including systems that also connect outside the local |
|             | network and instant messaging systems                 |
|             | Cf. HE7551+ Postal service                            |
| 5105.73     | General works   |
| 5105.74.A-Z | Special programs, A-Z                                 |
| 5105.74.C57 | Cisco IronPort  |

## Telecommunication

## Computer networks

## Local area networks

## Electronic mail systems

## Special programs, A-Z -- Continued

5105.74.E57

Entourage

5105.74.G55

Gmail

5105.74.J32

Jabber

5105.74.P66

Postfix

5105.74.P76

Procmail

5105.74.Q43

Qmail

5105.74.S44

Sendmail

5105.743

Spam filtering

5105.75

Home computer networks

Including amateurs' manuals

5105.76

Personal area networks

5105.77

Ad hoc networks

5105.775

FiWi access networks

5105.78

Wireless LANs

5105.8.A-Z

Special systems, A-Z

5105.8.A77

AppleTalk

Banyan VINES see TK5105.8.V56

5105.8.B57

BLEND

5105.8.C57

Cisco

5105.8.E25

Econet

5105.8.E83

Ethernet

5105.8.I24

IBM Token-Ring Network

5105.8.I44

ILLINET

5105.8.J84

Juniper

5105.8.L34

LAN Server

5105.8.N63

Nortel

5105.8.N65

Novell Netware networks

5105.8.S65

SNA

5105.8.T65

TOPS

5105.8.V56

VINES

5105.83

Electronic villages

5105.84

Value-added networks

5105.85

Metropolitan area networks

5105.86

Storage area networks

Wide area networks

5105.87

General works

5105.875.A-Z

Special networks and systems, A-Z

5105.875.A77

ARPANET

5105.875.B57

BITNET

5105.875.C45

CGNET

5105.875.D37

DDN

## Telecommunication

## Computer networks

## Wide area networks

## Special networks and systems, A-Z -- Continued

5105.875.E87

Extranets

5105.875.F55

Florida Information Resource Network

5105.875.I57

Internet

5105.875.I6

Intranets

5105.875.N37

National Research and Education Network

5105.875.S58

Sistema Nacional e-México

5105.875.S95

SURAnet

5105.875.S97

Switched multi-megabit data service

5105.875.U83

Usenet

## Specific aspects of, or services on, the Internet

General works see TK5105.875.I57

5105.878

Moral and ethical aspects

## Browsers

5105.882

General works

5105.883.A-Z

Special, A-Z

(5105.883.C66)

Communicator (Netscape)

see TK5105.883.N49

5105.883.F55

Firefox

5105.883.G66

Google Chrome

5105.883.M53

Microsoft Internet Explorer

5105.883.N43

NetCruiser

5105.883.N48

Netscape. Netscape Navigator

5105.883.N49

Netscape Communicator

5105.883.N493

Netscape SuiteSpot

5105.883.O65

Opera

(5105.883.S85)

SuiteSpot (Netscape)

see TK5105.883.N493

5105.8835

## Domain names

## Search engines

Class here works on the engineering and technology of  
search enginesFor works on using search engines, browsers, and  
other user interfaces to retrieve information see  
ZA4230+

5105.884

General works

5105.885.A-Z

Special, A-Z

5105.885.A45

AltaVista

5105.885.G66

Google

5105.885.N68

Novell E-guide

5105.885.O37

OASIS

5105.885.O53

OMEGA

5105.885.R34

RaiNews24



## Telecommunication

## Computer networks

## Wide area networks

## Specific aspects of, or services on, the Internet

## Search engines

## Special, A-Z -- Continued

5105.885.W42

WebCompass

5105.885.Y34

Yahoo!

Electronic mail systems see TK5105.73+

Internet games see GV1469.15+

5105.8854

Internet governance

5105.8855

Internet access. Internet access control

Cf. QA76.9.A25 Access control. Computer security

5105.886

Internet Relay Chat

5105.8863

Computer sound processing

5105.8865

Internet telephony

Internet videos

5105.8867

General works

5105.8868.A-Z

Special, A-Z

5105.8868.Y68

YouTube

5105.887

Webcasting. Push technology

World Wide Web

Including general works on web site design and  
development

5105.888

General works

5105.88813

Web services

5105.88815

Semantic Web

5105.88817

Web 2.0

5105.8882

Wikis

Web authoring software

Including Web server software

For HTML see QA76.76.H94

For specific programs see TK5105.8885.A+

5105.8883

General works

5105.8884

Weblog software

5105.8885.A-Z

Special, A-Z

5105.8885.A26

Active server pages

5105.8885.A28

ActiveX

5105.8885.A34

Adobe GoLive

5105.8885.A35

Adobe InDesign

5105.8885.A355

Adobe Muse

5105.8885.A36

Adobe PageMill

5105.8885.A38

Adobe Photoshop

5105.8885.A52

Ajax

5105.8885.A63

Apache

5105.8885.B4

BEA Weblogic

## Telecommunication

## Computer networks

## Wide area networks

## Specific aspects of, or services on, the Internet

## World Wide Web

## Web authoring software

## Special, A-Z -- Continued

5105.8885.C55

Claris Home page

5105.8885.C58

Community server

(5105.8885.C66)

Composer (Netscape)

see TK5105.8885.N49

5105.8885.D54

Django

5105.8885.D68

DotNetNuke

5105.8885.D74

Dreamweaver

5105.8885.D78

Drupal

5105.8885.F55

Fireworks

5105.8885.F59

Flash

(5105.8885.F76)

FrontPage (Microsoft)

see TK5105.8885.M53

5105.8885.F87

FutureTense Texture

5105.8885.G64

GoLive CyberStudio

5105.8885.H65

HomeSite

5105.8885.J34

Jakarta Tomcat

5105.8885.J38

JavaServer pages

5105.8885.J42

JBoss

5105.8885.J86

Joomla

(5105.8885.L58)

LiveConnect (Netscape)

see TK5105.8885.N5

5105.8885.L67

Lotus Domino

5105.8885.M32

Macromedia Generator

5105.8885.M37

Macromedia sitespring

5105.8885.M38

Macromedia Studio MX

5105.8885.M52

Microsoft content management server

5105.8885.M525

Microsoft Expression Web

5105.8885.M53

Microsoft FrontPage

5105.8885.M54

Microsoft Office. Microsoft Office professional

5105.8885.M543

Microsoft SharePoint

5105.8885.M545

Microsoft TV

5105.8885.M55

Microsoft Visual InterDev

5105.8885.M57

Microsoft Visual studio

5105.8885.M59

Microsoft Word

5105.8885.M67

Movable Type

5105.8885.N34

Namo web edit'õ

5105.8885.N48

NetObjects Fusion

5105.8885.N49

Netscape Composer

5105.8885.N5

Netscape LiveConnect

## Telecommunication

## Computer networks

## Wide area networks

Specific aspects of, or services on, the Internet

## World Wide Web

## Web authoring software

Special, A-Z -- Continued

5105.8885.N62

Novell Net publisher

5105.8885.O63

Opa

5105.8885.O7

Oracle Portal

5105.8885.O75

Oracle WebLogic server

(5105.8885.P34)

PageMill

see TK5105.8885.A36

5105.8885.R46

Resin

5105.8885.R83

Ruby on Rails

5105.8885.S24

SAP NetWeaver

5105.8885.S25

SAS

5105.8885.S56

Shockwave

5105.8885.S76

Struts framework

(5105.8885.T49)

FutureTense Texture

see TK5105.8885.F87

5105.8885.T54

TK toolkit

5105.8885.T85

Tumblr

(5105.8885.V58)

Visual InterDev (Microsoft)

see TK5105.8885.M55

5105.8885.W36

Water

5105.8885.W42

Web component

WebLogic server (Oracle) see TK5105.8885.O75

5105.8885.W43

WebSphere

5105.8885.W65

WordPerfect

5105.8885.W66

WordPress

5105.8885.Z65

Zope

5105.8887

WebTV (Trademark)

5105.9

Communications software

## Telegraph

Including works on the telegraph and telephone

Cf. TK5601+ Submarine telegraph

Cf. TK5700+ Radiotelegraph

Cf. TK9941+ Construction for amateurs

Cf. UG600+ Military telegraph

5107

Periodicals, societies, etc.

## Exhibitions

5107.5.A1

General works

5107.5.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

5108

Collected works (nonserial)

## Telegraph -- Continued

- 5110 Dictionaries and encyclopedias
- History
  - 5115 General works
  - Claims of inventors
  - 5117 General works
  - 5118.A-Z Special. By name, A-Z
  - 5118.B2 Claims of Bain
  - 5118.C7 Claims of Cooke
  - 5118.H5 Claims of Henry
  - 5118.M7 Claims of Morse
  - 5121-5227 Country divisions (Table T1a)
    - Add country number in table to TK5100
    - For technical reports of telegraph companies see TK5287.A+
- Biography
  - 5241 Collective
  - 5243.A-Z Individual, A-Z
  - Study and teaching
  - 5250 General works
  - Special schools
  - 5255 United States
  - 5257.A-Z Other countries, A-Z
  - 5261 Comprehensive treatises
  - 5262 Elementary textbooks
  - 5263 Telegraphers' manuals
  - 5264 Beginners' primers
  - 5265 Popular works
    - Cf. TK9941+ Construction for amateurs
  - 5266 Pocketbooks, tables, etc.
  - 5269 General special
  - 5275 Theory of telegraphy
  - 5281 Specifications (General)
  - Management of telegraph enterprises
    - Cf. HE7661 Business administration of telegraph companies
    - Cf. TK5381 Management of telegraph stations
  - 5283 General works
  - Office organization
  - 5285 General works
  - 5286 Records. Correspondence
  - 5287.A-Z Technical reports of telegraph companies. By company, A-Z
    - For financial and other non-technical reports see HE7761+
  - 5295 Catalogs of telegraph apparatus and supplies (General)
  - Telegraph plants. Stations. The line

## Telegraph

## Telegraph plants. Stations. The line -- Continued

5301

General works

## Stations

5311

General works

Central telegraph stations

5321

General works

5328.A-Z

Special. By country, A-Z

5341

Branch stations

5371

Power production and special machinery

5378

Electric cells

5381

Management of telegraph stations (Technical)

For telegraphers' manuals see TK5263

Cf. TK5283+ Management of telegraph enterprises

5385

Testing of telegraph apparatus, lines and material

Cf. TK5445 Inspectors' manuals

## Distribution. Construction. Connections

Including works on telegraph and telephone lines

5401

General works

Wiring of telegraph circuits

Cf. TK6341+ Wiring of telephone circuits

5441

General works

5445

Telegraph wiremen's manuals. Inspectors' manuals.

Diagrams of connections, etc.

Cf. TK5266 Pocketbooks and tables for telegraph  
engineers

## The line

Cf. TK6351+ Telephone lines

5451

General works

## Overhead lines

5452

General works

5454

Line material (General)

5455

Details

Including poles and crossarms, guys and braces

## Underground lines

5465

General works

5467

Conduit material (General)

5468

Details

Cables see TK5481

5481

Telegraph wires and cables

For submarine cables see TK5671

5491

Switchboards and accessories (for line connections)

For switchboards for electric power in telegraph see  
TK5371

## Telegraph -- Continued

## Systems and instruments for telegraphing

For systems and instruments for making connections see  
TK5491

- 5501 General works
- 5509 General special. Telegraph alphabets
- (5511) Early to 1830
  - Claims of inventors, see TK5117+
- 5515 Optic systems. Dial telegraphs. Non-automatic electrolytic telegraphs
- Acoustic systems and instruments
- 5521 General works
- 5522 General special. Buzzer systems
- 5523 Simplex. Ordinary. High speed
- 5531 Duplex (two messages simultaneously, in opposite directions)
- 5535 Quadruplex or synchronous (four messages simultaneously, in two directions)
- 5538 Multiplex (more than four messages simultaneously)
- Automatic transmitting and receiving systems and instruments
- 5541 General works
- 5543 Printing
  - Class here letters or characters printed directly
- 5545 Writing. Autographic
- 5546 Ink impression or inking receiving systems and instruments
- 5547 Perforating transmitting systems and instruments.
  - Perforated paper-fillet in transmitter and ink impression in receiver. Synchronographs
- 5549 Chemical (Electrochemical. Photochemical)
  - Cf. TK6600 Picture telegraph
- 5550 Induction systems
- 5569.A-Z Telegraph systems. By application, A-Z
- 5569.T7 Train telegraph systems
  - Cf. TK5550 Induction systems
- Instruments (General)
  - Class special instruments with the system above
- 5571 General works
- 5575 Keys
- Sounders and relays
- 5581 General works
- 5585 Relays
- Submarine telegraph
- 5601 Periodicals, societies, etc.
- History

## Telegraph

## Submarine telegraph

## History -- Continued

5605

General works

5607.A-Z

By region or country, A-Z

## Geographical subdivisions

5609

General works

5611

Atlantic submarine telegraph

Including life and works of C.W. Field

5613

Pacific submarine telegraph

5615

Indian Ocean submarine telegraph

5621

Comprehensive treatises

5622

Elementary textbooks

5625

Popular works

5626

Pocketbooks, tables, etc.

5627

General special

5641

Stations. Construction. Component parts, etc.

## Cables and cable laying

5661

General works

Cable laying and repairing

5662

General works

5671

The cable

Cf. TK5481 Telegraph cables (General)

5681

Systems and instruments

## Radiotelegraph. Wireless telegraph

Cf. HE8660+ Economics

Cf. HJ6645+ Coast Guard service (U.S.)

Cf. TK6540+ Wireless telephone

Cf. UG610+ Military wireless telegraph

Cf. VG76+ Naval wireless telegraph

5700

Periodicals, societies, etc.

5707

Collected works (nonserial)

5709

Dictionaries and encyclopedias

Directories of wireless stations see HE8663+

5711

History

## Special countries

United States

5718

General works

5719.A-W

States, A-W

5720

Canada

5721

Latin America

5721.5

West Indies

South America

5722.A1

General works

5722.A2-Z

By region or country, A-Z

Europe

## Telegraph

## Radiotelegraph. Wireless telegraph

## Special countries

## Europe -- Continued

5723.A1

## General works

5723.A2-Z

## By region or country, A-Z

## Asia

5724.A1

## General works

5724.A2-Z

## By region or country, A-Z

## Africa

5725.A1

## General works

5725.A2-Z

## By region or country, A-Z

5726

## Australia

5726.5

## New Zealand

5727

## Pacific Islands

5728

## Arctic regions

## Biography

5733

## Collective

5739.A-Z

## Individual, A-Z

## Study and teaching. Schools

5740

## General works

5740.5

## Laboratory manuals

5741

## Comprehensive treatises

5742

## Elementary textbooks

5743

## Operators' manuals

5745

## Popular works

For amateurs' manuals for construction see TK9946

5746

## Pocketbooks, tables, etc.

5747

## General special

5751

## Theory

5755

## Patents

5771

## Stations for radiotelegraph

## Special applications

5773

## General works. Position finding, etc.

(5775)

## Aeronautical

see TL693+

5777

## General special

## Systems and instruments for radiotelegraph

For general works, see TK5741+

5811

## Special systems

## Instruments

5861

## General works

5863

## Coherers

5865

## Other special

## Electroacoustics. Electroacoustic transducers

5981

## General works



## Electroacoustics. Electroacoustic transducers -- Continued

- 5981.5 Active noise and vibration control
- 5982 Ultrasonic transducers
- 5983 Loudspeakers
- 5983.5 Headphones
- 5984 Magnetic tape and magnetic tape heads
  - For data tapes see TK7895.D3
- 5986 Microphones
  - Cf. TK6478 Telephone transmitters
- 5987 Hydrophones
  - Recorders and recording (Magnetic) see TK7881.6+
  - Sound systems (General) see TK7881.4+
- 5990 Sirens
- Telephone
  - For telecommunications devices for the deaf see HV2502.5
  - For systems and standards used in wireless communication, including wireless telephone systems see TK5103.2+
  - For Internet telephony see TK5105.8865
  - For telephone plants see TK6201+
  - For telephone systems and instruments see TK6401+
  - For mobile communication systems see TK6570.M6
  - For military telephone systems see UG620.A+
- 6001 Periodicals, societies, etc.
- 6005 Congresses. Conventions
- Exhibitions. Museums
- 6005.5.A1 General works
- 6005.5.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 6006 Collected works (nonserial)
- 6007 Dictionaries and encyclopedias
- 6011 Directories of the telephone industry
- History
- 6015 General works
  - Claims of inventors
- 6017 General works
- 6018.A-Z Special. By name, A-Z
  - e.g.
  - 6018.B4 Claims of Bell
  - 6018.P6 Claims of Pickering
  - 6018.S8 Claims of Strong
- 6021-6127 Special countries (Table T1a)
  - Add country number in table to TK6000
  - For technical reports of telephone companies see TK6187.A+
- Biography

## Telephone

- Biography -- Continued
- 6141 Collective
- 6143.A-Z Individual, A-Z
- Study and teaching
- 6150 General works
- Special schools
- 6155 United States
- 6157.A-Z Other countries, A-Z
- 6161 Comprehensive treatises
- 6162 Elementary textbooks
- 6163 Operators' manuals
  - Cf. TK6345 Telephone wiremen's manuals
- 6164 Beginners' primers
- 6165 Popular works. Juvenile works
  - Cf. TK9951 Amateurs' manuals for construction
- 6167 Pocketbooks, tables, etc.
- 6168 Examinations, questions, etc.
- 6169 General special
  - Including rural telephones, estimates
- 6175 Theory of the telephone
- 6181 Specifications (General)
- Management of telephone enterprises
  - Cf. HE8761+ Business administration of telephone companies
  - Cf. TK6281 Management of telephone stations
- 6183 General works
- Office organization
- 6185 General works
- 6186 Records, correspondence, etc.
- 6187.A-Z Technical reports of telephone companies. By company, A-Z
  - For financial and other non-technical reports see HE8800+
- 6188 General special
- 6195 Catalogs of telephone apparatus and supplies (General)
- Telephone plants. Stations. The line
- 6201 General works
- Stations. Central telephone stations. Exchanges
- 6211 General works
- 6241 Substations
- Power production and special machinery
  - For central stations (General) see TK1191+
- 6271 General works
- 6278 Batteries
- 6281 Management of telephone stations
  - Cf. TK6183+ Management of telephone enterprises

## Telephone

Telephone plants. Stations. The line -- Continued

6285      Testing of telephone apparatus, line and material

Distribution. Construction. Connections

6301      General works

Wiring of telephone circuits

6341      General works

6343      General special

Including phantom circuits

6345      Telephone wiremen's manuals. Inspectors' manuals

Cf. TK3205 Wiring manuals for electricians

Cf. TK5445 Telegraph wiremen's manuals

Cf. TK6163 Telephone operators' manuals

## The line

Cf. TK5103.78 Digital subscriber lines

Cf. TK5451+ Telegraph (The line)

6351      General works

6352      Overhead or aerial lines

For telegraph overhead lines see TK5452+

6365      Underground lines

Submarine telephone cables

History

6370      General works

6372.A-Z      By region or country, A-Z

Geographical subdivisions

6373      Atlantic Ocean

6375      Pacific Ocean

6377      Treatises

6379      Popular works. Juvenile works

Telephone wires and cables

For telegraph wires and cables see TK5481

6381      General works

6383      Wiretapping

Switchboards and accessories for line connections

For switchboards for electric power for telephones see  
TK6271+

6391      General works

6392      General special

Systems for making connections

6394      Manual systems

6397      Automatic systems

Systems and instruments for transmitting sound

For systems and instruments for making electric  
connections see TK6391+

6401      General works

## Telephone

## Systems and instruments for transmitting sound -- Continued

- 6418 Catalogs of instruments
  - Cf. TK6195 Catalogs of apparatus and supplies
- Special systems and instruments
  - Cf. TK6394+ Systems for making connections
- 6421 General works
- 6425 Multiplex systems
- 6430 Centrex systems and services
- Instruments
  - 6471 General works
  - 6473 Technique of telephone instruments
  - Transmitters
    - 6475 General works
    - 6478 Microphones
    - 6481 Receivers
  - 6500 Telephones. Telephonographs. Recording telephones. Dictographs. Mechanical telephones
  - 6505 Video telephones
  - 6525 Simultaneous telegraph and telephone
- Radio
  - Including wireless telephone
  - Cf. QC660.5+ Electric waves
  - 6540 Periodicals, societies, etc.
  - 6541 Congresses
  - (6542) Yearbooks
    - see TK6540
  - 6543 Collected works (nonserial)
  - 6544 Dictionaries and encyclopedias
  - Biography
    - 6545.A1 Collective
    - 6545.A2-Z Individual, A-Z
  - 6547 History
  - 6548.A-Z By region or country, A-Z
  - 6550 General works
    - Cf. TK9956+ Amateur construction
  - 6550.7 Popular works. Juvenile works
  - 6550.8 Laboratory manuals
  - 6552 Tables, calculations, etc.
  - 6552.5 Radio measurements
  - 6553 General special
    - Including testing, standards, repairing, safety, two-way radio (Radiotelephone), etc.
  - 6553.5 Addresses, essays, lectures
  - Study and teaching. Research
  - 6554 General works

## Radio

Study and teaching. Research -- Continued

6554.5 Examinations, questions, etc.

6555 Directories of radio stations

Cf. TL695.5 Aircraft stations

6557 Trade directories

Radio stations

Cf. TH4655 Construction of radio station structures

6557.5 General works

6558.A-Z Special radio stations. By place, A-Z

e.g.

6558.P5 Pittsburgh, KDKA

6559 Patents

Apparatus

6560.A1-.Z4 General works

Prefer TK6561+

6560.Z5 Trade publications

6561 Sending apparatus. Transmitters

6562.A-Z Special, A-Z

6562.D54 Digital audio broadcasting

6562.F2 FM broadcasting

6562.P32 Packet transmission

6562.S28 Satellite radio

6562.S5 Shortwave transmission

6562.S54 Single-sideband transmission

6562.S7 Stereophonic broadcasting

6562.W5 Wire broadcasting

Radio receiving apparatus

Including catalogs

6563 General works

6563.2 Collectors and collecting

6564.A-Z Special, A-Z

6564.C79 Crystal sets

6564.F7 Frequency modulation radios

6564.M64 Monitoring receivers

6564.P35 Panoramic receivers

6564.P6 Portable radios

6564.S5 Shortwave radios

6564.T7 Transistor radios

Radio transmitter-receivers

Class here works on the electronic engineering of radio  
transmitter-receivers and works on their use unless  
otherwise provided for in the field of application

For specific makes of smartphones see QA76.8.A+

For walkie-talkies see TK6565.W25

6564.3 General works

## Radio

## Apparatus

Radio transmitter receivers -- Continued

6564.4

Special devices, A-Z

6564.4.C45

Cell phones

For specific makes of smartphones see QA76.8.A+

6565.A-Z

Other radio apparatus, A-Z

6565.A55

Amplifiers

6565.A6

Antennas

For special types see TK7871.67.A+

6565.A8

Attenuators

6565.C3

Cathode ray tubes

6565.C6

Coils

6565.C65

Condensers

6565.D4

Detectors

6565.D5

Direction finders

(6565.E6)

Electron tubes

see TK6565.V3

6565.F5

Filters

6565.F7

Frequency changers

Loudspeakers see TK5983

6565.M35

Mains supply

Microphones see TK5986

6565.O7

Oscillators

6565.P3

Panels

6565.R32

Radio and television towers

Receivers see TK6563+

6565.R4

Recording apparatus

6565.R42

Rectifiers

6565.R426

Resistors

6565.R43

Resonators

6565.S9

Switchgear

Television and radio towers see TK6565.R32

6565.T7

Transformers

6565.T73

Transmission lines

6565.V3

Vacuum tubes. Electron tubes

6565.V6

Voltage regulators

6565.W25

Walkie-talkies

6565.W3

Waveguides

6570.A-Z

Special applications of radio, A-Z

Aircraft see TL692+

6570.A8

Automobiles

(6570.B7)

Broadcasting

see PN1991+

6570.C5

Citizens band radio

6570.C6

Radio control

## Radio

Special applications of radio, A-Z -- Continued

6570.I34 Identification. Radio frequency identification systems

Military radio systems see UG610+

(6570.M6) Mobile communication systems

see TK5103.2+

For systems and standards used in wireless  
communications see TK5103.2+

Naval radio systems see VG76+

6570.N43 Near field communication

6570.P5 Pipelines

6570.P6 Police

6570.P8 Public safety radio service

6570.R27 Radio data systems

Radio frequency identification systems see TK6570.I34

6570.R3 Railroads

6570.T76 Tropospheric scatter communication systems

Wireless communication systems see TK5103.2+

Extraterrestrial radio communication

For radio in astronautics see TL3035

6571 General works

6571.5.A-Z Special celestial bodies, A-Z

6571.5.M6 Moon

## Radar

6573 Periodicals, societies, congresses, etc.

6574 Dictionaries and encyclopedias

6574.2 History

6574.4.A-Z By region or country, A-Z

6575 General works

6576 Popular works. Juvenile works

6578 Tables, calculations, etc.

6580 General special

6582 Computer coordination of multiple radar systems

## Apparatus

6585 General works

6587 Transmitting apparatus

Including transmitter-receiver units

6588 Receiving apparatus

6590.A-Z Other apparatus, A-Z

6590.A5 Amplifiers

6590.A6 Antennas

6590.C3 Cathode ray tubes

6590.I5 Indicators

6590.M5 Microwave lenses

6590.O67 Optical equipment

6590.O7 Oscillators

## Radar

## Apparatus

Other apparatus, A-Z -- Continued

6590.R3

Radomes

6590.R4

Resonators

6590.S4

Servomechanisms

6590.T72

Transmit-receive tubes

6590.V6

Voltage regulators

6590.W3

Waveguides

6592.A-Z

## Special types, A-Z

6592.A9

Automatic tracking

6592.B57

Bistatic radar

6592.C6

Coherent radar

6592.C65

Continuous wave radar

6592.D6

Doppler

6592.G7

Ground penetrating radar

6592.L67

Low probability of intercept radar

6592.M6

Monopulse

6592.M67

Moving target indicator radar

6592.O6

Optical radar

6592.O94

Over-the-horizon

6592.P85

Pulse compression radar

6592.S4

Search radar

6592.S95

Synthetic aperture radar

6592.T48

Through-the-wall imaging

6592.U48

Ultra-wideband radar

6595.A-Z

## Special applications of radar, A-Z

To be classified here unless provided for elsewhere

Aeronautics see TL692+

6595.G4

Geodesy

Military science see UG610+

Naval science see VG76+

Navigation see VK560+

Oceanographic research ships see VM453

Radar on ships see VM480+

6600

## Phototelegraphy. Picture telegraphy

Including radio photographs

Cf. TK6710+ Facsimile transmissions

## Television

Cf. GV1469.3+ Video games

Cf. PN1992+ Television broadcasts

6630.A1

## Periodicals, societies, etc.

6630.A2-Z

## General works

6634

## Dictionaries and encyclopedias

## Biography

6635.A1

## Collective



## Television

- 6635.A2-Z Biography -- Continued
  - Individual, A-Z
- 6637 History
- 6638.A-Z By region or country, A-Z
- 6640 Popular works. Juvenile works
  - Cf. TK9960+ Television for amateurs
- 6641 Laboratory manuals
- 6642 Handbooks, manuals, etc.
- 6643 General special
- 6644 Television as a profession
- 6645 Directories of television stations
- 6646 Television stations
  - Cf. TH4656 Construction of television station structures
- 6648 Television relay systems
  - General works
- 6649.A-Z Special systems and projects, A-Z
- Apparatus
  - Cf. TK5105.8887 WebTV (Trademark)
- 6650 General works
- 6651 Transmitting apparatus
- 6653 Receiving apparatus
- 6655.A-Z Other, A-Z
  - 6655.A5 Amplifiers
  - 6655.A6 Antennas
  - 6655.C3 Camera tubes
  - Cathode ray tubes see TK6655.P5
  - 6655.C5 Channel selectors
  - 6655.D43 Deflection systems
  - 6655.D54 Digital video recorders
    - Cf. TK6655.V5 Video tape recorders
  - Electronic cameras see TR882+
  - 6655.O7 Oscillators
  - 6655.P5 Picture tubes
  - 6655.T7 Transformers
  - 6655.T8 Tuners
  - 6655.U6 Ultrahigh frequency apparatus (General)
  - 6655.V5 Video tape recorders
    - Cf. TK6655.D54 Digital video recorders
    - Cf. TR845+ Cinematography. Motion pictures. Video recording
    - Cf. TR882.3 Camcorders
- 6658 3-D television
- 6670 Color television
- 6675 Community antenna television
- 6676 Master antenna television

## Television -- Continued

- 6677 Direct broadcast satellite television
- 6678 Digital television
- Mobile television
- 6678.3 General works
- 6678.5.A-Z Special systems, standards, formats, A-Z
- 6678.5.D84 DVB-H
- 6679 High definition television
- 6679.3 Interactive television
- 6679.5 Underwater television
- 6679.7 Teletext systems
- 6680 Closed-circuit television
- 6680.3 Video surveillance
- Video telephones see TK6505
- Digital video
  - Class here general works on using microcomputer technology to digitize moving images for inclusion in computer programs, including equipment and standards
  - For works on using digital video technology in cinematography see TR860
- 6680.5 General works
- 6680.8.A-Z Special systems, standards, software, A-Z
- 6680.8.A15 3-D video
- 6680.8.A66 Apple TV
- 6680.8.M74 MPEG
- 6680.8.M93 MyDVD
- 6680.8.R67 Roxio Easy media creator
- Three-dimensional video see TK6680.8.A15
- Multimedia computer systems see QA76.575
- 6681 Video game equipment
  - Cf. GV1469.3+ Video games
  - Cf. TK9971 Amateur constructors' manuals
- (6683) Underwater television
  - see TK6679.5
- 6685 Video discs and video disc equipment
- 6687 Interactive video
  - Cf. LB1028.75 Education
- Facsimile transmission
- 6710 General works
- 6720 Ultrafax
- Installation of household appliances
  - For electric space heating see TH7409+
- 7018 Treatises
  - Cf. TK9900+ Amateur constructors' manuals
- 7019 Popular works
- 7028 Catalogs

## Installation of household appliances -- Continued

## Electric bells and buzzers

For buzzer systems in telegraphy see TK5522

7108

General works

7109

Popular works

7118

Catalogs of electric bells

## Electric annunciators and alarms

Cf. TH9739 Security in buildings

7201

General works

7221

Annunciators

Alarms

7241

General works

(7251)

Burglar alarms

see TH9739

(7271)

Fire alarms

see TH9271

(7291)

Electric ignition of gas

see TH6885

(7301)

Electric clocks

see TS544

## Miscellaneous electrical industries

(7611)

Electric train signaling

see TF615+

Train telegraph systems see TK5569.T7

7725

Manufacture of electrodes, carbons, etc.

For use of carbons for arc lamps see TK4335

## Electronics

Cf. TK6540+ Radio

Cf. TK6573+ Radar

Cf. TK6630+ Television

7800

Periodicals. Societies. Serials

7801

Congresses. Conventions

Exhibitions

7802.A1

General works

7802.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

7803

Collected works (nonserial)

7804

Dictionaries and encyclopedias

7805

Directories

Biography

7806

Collective

7807.A-Z

Individual, A-Z

7809

History

By region or country

7811

United States

7812.A-Z

Other regions or countries, A-Z

## Electronics -- Continued

- 7815 Treatises
- 7816 Elementary textbooks
- 7817 Outlines, syllabi, etc.
- 7818 Laboratory manuals
- 7819 Popular works
- 7820 Juvenile works
- 7825 Handbooks, pocketbooks, tables, etc.
- 7828 Addresses, essays, lectures
- 7835 General special
- 7836 Electronic plants and equipment. Manufacture of electronic components and apparatus
- 7845 Electronics as a profession
- Patents
- 7850.A1 Periodicals, societies, etc.
- 7850.A2-Z General works
- 7855 Research
- Study and teaching
- 7860 General works
- 7862 Problems, exercises, etc.
- 7863 Examinations, questions, etc.
- 7864 Mathematics
- 7866 Drawing. Diagrams, etc.
- Electronic circuits (General)
  - For circuitry of special apparatus and components, see TK7871.2+ TK7871.2, Circuitry of amplifiers
- 7867 General works
- 7867.2 Electromagnetic interference and compatibility
- 7867.5 Noise
- 7867.8 Shielding
- 7868.A-Z Special circuits (General)
- 7868.A79 Asynchronous
- 7868.B7 Bridge
- 7868.D5 Digital
- Integrated circuits see TK7874+
- 7868.I58 Interface circuits
- 7868.L6 Logic circuits
- Microwave circuits see TK7876+
- 7868.M64 Molded interconnect devices
- 7868.P6 Power supply
- 7868.P7 Printed circuits
- 7868.P8 Pulse
- 7868.S88 Switched capacitor circuits
- 7868.S9 Switching
- 7868.T5 Timing
- 7868.T7 Trigger

## Electronics -- Continued

## Apparatus and materials

- 7869 Periodicals, societies, etc.
- 7870 General works
- Electronic packaging
- 7870.15 General works
- 7870.16 Ball grid array technology
- 7870.17 Chip scale packaging
- 7870.2 Maintenance and repair. Electronic troubleshooting
- 7870.23 Reliability. Failures
  - Cf. TK7871.852 Semiconductor failures
- Environmental engineering. Operating environment
- 7870.24 General works
- 7870.25 Cooling. Thermal properties
- 7870.27 Contamination and decontamination
- 7870.28 Corrosion
- 7870.285 Effect of radiation on
- 7870.3 Catalogs
- Materials (General)
- 7871 General works
- 7871.15.A-Z Special, A-Z
- 7871.15.B47 Berlinite crystals
- 7871.15.C33 Cadmium alloys
- 7871.15.C35 Carbon
- 7871.15.C4 Ceramic materials
- 7871.15.D53 Diamonds
- 7871.15.F4 Ferrites
- 7871.15.F5 Films
- 7871.15.G3 Gallium arsenide
- 7871.15.G33 Gallium nitride
- 7871.15.G5 Glass
- 7871.15.I52 Indium arsenide
- 7871.15.I53 Indium phosphide
- 7871.15.M3 Magnetic materials
- 7871.15.M48 Metamaterials
- 7871.15.N53 Nickel alloys
- 7871.15.N57 Nitrides
- 7871.15.O7 Organometallic compounds
- 7871.15.P4 Phosphors
- 7871.15.P5 Plastic materials
- 7871.15.P6 Polymers
- 7871.15.P65 Potting compounds
- 7871.15.Q3 Quartz
- 7871.15.S54 Silicides
- 7871.15.S55 Silicon
- 7871.15.S558 Silicon nitride

## Electronics

## Apparatus and materials

## Materials (General)

## Special, A-Z -- Continued

7871.15.S56 Silicon organic compounds  
7871.15.T56 Titanium  
7871.15.T85 Tungsten  
7871.15.Z56 Zinc

## Amplifiers

7871.2 General works  
Including vacuum-tube and transistor amplifiers

7871.22 Dielectric

7871.23 Magnetic  
Cf. TK2851 Electric controllers

7871.24 Parametric

Rotating see TK2699

(7871.3-.37) Lasers

see TA1671+

(7871.33) Chemical lasers  
see TA1690

(7871.35) Gas lasers  
see TA1695

(7871.37) Solid-state lasers  
see TA1705

7871.4

## Masers

Cf. TA1671+ Lasers

7871.58.A-Z

## Other, A-Z

7871.58.A9 Audio

7871.58.B74 Broadband

7871.58.C75 Crossed-field

7871.58.D46 Differential

7871.58.D5 Direct current

7871.58.D54 Distributed

7871.58.F4 Feedback

7871.58.L57 Lock-in

7871.58.L6 Logarithmic

7871.58.O6 Operational

7871.58.P6 Power

7871.58.P8 Pulse

7871.58.T8 Tuned

7871.58.V5 Video amplifiers

## Antennas and waveguides

7871.6 Antennas

Cf. TK6565.A6 Radio

Cf. TK6590.A6 Radar

Cf. TK6655.A6 Television

## Electronics

## Apparatus and materials

## Antennas and waveguides -- Continued

- 7871.65 Waveguides
- 7871.67.A-Z Special, A-Z
- 7871.67.A33 Adaptive antennas
- 7871.67.A77 Arrays
  - Circularly polarized antennas see TK7871.67.S65
- 7871.67.C95 Cylindrical antennas
- 7871.67.D56 Dipole antennas
- 7871.67.H54 High altitude platform systems
- 7871.67.L45 Lens antennas
- 7871.67.M5 Microstrip antennas
- 7871.67.M53 Microwave antennas
- 7871.67.M66 Monopole antennas
- Optical antennas see TK8360.O65
- 7871.67.S65 Spiral antennas
  - Including circularly polarized antennas
- 7871.67.U45 Ultra-wideband antennas

## Detectors. Sensors

- Infrared detectors see TA1573
- Metal detectors see TK7882.M4
- Motion detectors see TK7882.M68
- Optical detectors see TK8360.O67
- Proximity detectors see TK7882.P7
- Voltage detectors see TK321

7871.674 General works

7871.676 Intelligent sensors

## Electroluminescent devices

- 7871.68 General works
- Light-emitting diodes see TK7871.89.L53
- Electroluminescent display systems see TK7882.I6

## Electron tubes

- 7871.7 General works
- Vacuum tubes
- 7871.72 General works
- 7871.73 Cathode ray tubes
- 7871.74 Klystrons
- 7871.75 Magnetrons
- 7871.76 Storage tubes
- 7871.77 Traveling-wave tubes
- 7871.79.A-Z Other, A-Z
- 7871.79.G95 Gyrotrons
- 7871.79.K4 Kenotrons
- 7871.79.P4 Pentodes
- 7871.79.T7 Trochotrons

## Electronics

## Apparatus and materials

## Electron tubes

## Vacuum tubes

## Other, A-Z -- Continued

7871.79.X2

## X-ray tubes

## Gas tubes

7871.8

## General works

7871.82

## Mercury-arc rectifiers

7871.83

## Thyratrons

7871.84.A-Z

## Other, A-Z

7871.84.C6

## Cold cathode tubes

7871.84.N4

## Neon tubes

## Semiconductors

Class here works on semiconductor materials used in  
electronic engineeringFor general works on the physical properties of  
semiconductor materials see QC610.9+For specific semiconductor materials used in electronic  
engineering see TK7871.15.A+

7871.85

## General works

7871.852

## Failures (General)

For specific semiconductors see TK7871.86+

## Diodes

7871.86

## General works

7871.87

## Tunnel diodes

7871.88

## Varactors

7871.89.A-Z

## Other, A-Z

7871.89.A94

## Avalanche diodes

7871.89.G84

## Gunn diodes

7871.89.L53

## Light-emitting diodes

7871.89.S35

## Schottky-barrier diodes

7871.89.S95

## Switching diodes

7871.89.Z46

## Zener diodes

Electroluminescent devices see TK7871.68+

Integrated circuits see TK7874+

## Transistors

7871.9

## General works

7871.92

## Junction

7871.95

## Field effect

7871.96.A-Z

## Other, A-Z

7871.96.B55

## Bipolar

7871.96.M53

## Microwave

7871.96.T45

## Thin film

7871.98

## Thermistors

7871.99.A-Z

## Other, A-Z



## Electronics

## Apparatus and materials

## Semiconductors

## Other, A-Z -- Continued

7871.99.A45

Amorphous semiconductors

Cf. QC611.8.A5 Physics

7871.99.C45

Charge transfer devices. Charge coupled devices

7871.99.C65

Compound semiconductors

7871.99.M4

Metal insulator semiconductors

7871.99.M44

Metal oxide semiconductors

7871.99.O74

Organic semiconductors

7871.99.T5

Thyristors

7871.99.V3

Varistors

## Optoelectronic devices see TK8300+

7872.A-Z

## Other, A-Z

Apparatus and components to be classed here unless  
otherwise provided for in the field of application

Capacitors see TK7872.C65

Charge transfer devices see TK7871.99.C45

7872.C56

Coils

Cold plates see TK7872.H4

7872.C65

Condensers. Capacitors

7872.C67

Contactors

7872.C68

Contacts

7872.C7

Counters

7872.C77

Cryoelectronic devices

7872.C8

Current converters

7872.C83

Current regulators

7872.D37

Decoders

7872.D4

Delay lines

7872.D48

Detectors. Sensors. Sensor networks

7872.D53

Dielectric devices

7872.E45

Electron gun

7872.E7

Equalizers

7872.F4

Ferrite devices

7872.F44

Ferroelectric devices

7872.F5

Filters (Electric)

7872.F54

Flexible electronics

7872.F7

Frequency changers

7872.F73

Frequency synthesizers

Frequency-voltage converters see TK7872.V54

7872.F85

Function generators

Cf. TK7895.F8 Function generators (Computers)

7872.G8

Gunn effect devices

7872.G9

Gyrators

7872.H3

Hall effect devices

## Electronics

## Apparatus and materials

## Other, A-Z -- Continued

|          |  |
|----------|--|
| 7872.H4  | Heat sinks   |
|          | Including cold plates  |
| 7872.I63 | Inductors  |
| 7872.I65 | Inverters  |
| 7872.L56 | Liquid crystal displays  |
| 7872.L64 | Logic devices  |
| 7872.M25 | Magnetic cores and devices   |
| 7872.M3  | Masks  |
|          | Including microlithography   |
| 7872.M46 | Membrane switches  |
| 7872.M5  | Mixers   |
| 7872.M6  | Modulators   |
| 7872.M8  | Multiplexers   |
| 7872.N4  | Negative-resistance devices  |
| 7872.N6  | Noise generators   |
| 7872.O7  | Oscillators  |
| 7872.P38 | Phase-locked loops   |
| 7872.P39 | Phase shifters   |
| 7872.P54 | Piezoelectric devices  |
| 7872.P6  | Potentiometer  |
| 7872.P75 | Printed electronics  |
| 7872.P8  | Pulse generators   |
| 7872.R35 | Rectifiers   |
| 7872.R38 | Relays   |
| 7872.R4  | Resistors  |
|          | Sensor networks see TK7872.D48                                     |
|          | Sensors see TK7872.D48   |
| 7872.S5  | Signal generators  |
| 7872.S8  | Superconductors  |
| 7872.T55 | Thin film devices  |
| 7872.T6  | Transducers  |
| 7872.T7  | Transformers   |
| 7872.T74 | Transmission lines   |
| 7872.V53 | Voltage dividers   |
| 7872.V54 | Voltage-frequency converters                                       |
| 7872.V55 | Voltage regulators   |
|          | Microelectronics. Integrated circuits                              |
|          | For processes involving masks or microlithography see<br>TK7872.M3 |
| 7874     | General works  |
| 7874.5   | Catalogs of microelectronic equipment                              |
| 7874.53  | Interconnects  |
| 7874.54  | Lumped elements  |

## Electronics

## Microelectronics. Integrated circuits -- Continued

- 7874.55 Integrated circuit layout
- Integrated circuits, Three-dimensional see TK7874.893
- 7874.58 Testing. Measurement. Quality control
- 7874.6 Application-specific integrated circuits
- 7874.65 Digital integrated circuits
- 7874.654 Linear integrated circuits
- 7874.66 Low voltage integrated circuits
- 7874.7 Very high speed integrated circuits
- 7874.75 Very large scale integrated circuits
- 7874.76 Ultra large scale integrated circuits
- 7874.78 Radio frequency integrated circuits
- 7874.8 Molecular electronics
- Nanoelectronics. Quantum systems
- 7874.84 General works
- 7874.843 Nanolithography
  - Including nanoimprint lithography
- 7874.845 Nanonetworks
- 7874.85 Nanowires
- 7874.88 Quantum dots
- 7874.885 Quantum systems control
- 7874.887 Spintronics
- 7874.893 Three-dimensional integrated circuits
- 7874.9 Vacuum microelectronics
- 7875 Microelectromechanical systems
  - For devices applied to a specific field, see the field
  - For microharvesters, see TK2897
- Microwaves
  - Including microwave circuits
- 7876 General works
- Amplifiers see TK7871.2+
- Heating see TK4601+
- Transistors see TK7871.96.M53
- Tubes see TK7871.7+
- Waveguides see TK7871.65
- 7876.5 Millimeter waves
- 7877 Submillimeter waves
  - Including terahertz technology
- Electronic measurements
- 7878 General works
- 7878.2 Time measurements
- Electronic instruments
  - Cf. TK301+ Electric meters
- 7878.4 General works
- Auxiliary equipment

## Electronics

## Electronic measurements

## Electronic instruments

## Auxiliary equipment -- Continued

7878.5

## General works

7878.6

## Probes

7878.7

## Cathode ray oscillographs. Oscilloscopes

## Voltmeters

7879

## General works

7879.2

## Vacuum tube voltmeters

7879.4

## Frequency meters

## Applications of electronics

7880

## General works

7881

## Industrial electronics

7881.15

## Power electronics

## Special power supply circuits see TK7868.P6

## Special applications

7881.2

## Electronic control

7881.25

## Home automation

For home computer networks see TK5105.75

7881.3

## Home entertainment systems

Cf. TK9961 Home video systems amateurs' manuals

## Sound systems. Sound recording. Sound reproduction

For electroacoustics see TK5981+

7881.4

## General works

7881.45

## Sound studios

7881.5

## Intercommunication systems

## Magnetic tape recorders and recording

7881.6

## General works

Cf. TK5981+ Electroacoustics

7881.65

## Digital audiotape recorders and recording

7881.7

## High fidelity systems

7881.75

## Compact disc players

7881.78

## Minidisks and players

## Stereo high fidelity systems. Quadraphonic sound systems

7881.8

## General works

7881.83

## Surround-sound systems

7881.85

## Automobile sound systems and equipment

7881.9

## Theaters, auditoriums, etc.

7882.A-Z

## Other, A-Z

Class works here unless otherwise provided for in the field of application

7882.A37

## Agriculture

7882.B56

## Biometric identification

7882.C56

## Compact discs

## Electronics

## Applications of electronics

## Other, A-Z -- Continued

Detectors, Metal see TK7882.M4

Detectors, Motion see TK7882.M68

7882.D93

DVDs. DVD players

7882.E2

Eavesdropping. Electronic surveillance

For video surveillance see TK6680.3

7882.E44

Electronic paper

Facsimile transmission see TK6710+

7882.G35

Games

7882.I6

Information display systems

7882.M4

Metal detectors

Mobile communication systems see TK6570.M6

7882.M68

Motion detectors

7882.P3

Pattern recognition systems

Cf. TA1650+ Optical pattern recognition

7882.P7

Proximity detectors

7882.S3

Scanning systems

7882.S65

Speech processing systems

7882.S78

Stun guns

Telecommunication see TK5101+

7882.T47

Three-dimensional display systems

For three-dimensional video see TK6680.8.A15

For stereoscopic photography see TR780

7882.W44

Weighing systems

## Computer engineering. Computer hardware

Including design and construction

Cf. QA75.5+ Computers (General), electronic data  
processing, computer software, etc.

Cf. QA267+ Machinery theory

Cf. T58.6+ Industrial information systems

Cf. TJ212+ Control engineering

7885.A1

Periodicals, societies, congresses, etc.

7885.A2

Dictionaries and encyclopedias

7885.A4

Directories

7885.A5

History

7885.A6-Z

General works

Biography

7885.2

Collective

7885.22.A-Z

Individual, A-Z

7885.4

Popular works

Amateurs' manuals for construction see TK9969

7885.5

Juvenile works

Computer engineering as a profession

7885.53

General

## Electronics

## Applications of electronics

## Computer engineering. Computer hardware

## Computer engineering as a profession -- Continued

7885.54

## Computer technicians

7885.6

## Study and teaching

7885.7

## Hardware description languages

7886

Computer manufacturing plants. Manufacturing of  
computers and computer components

## Including management

7887

## Maintenance and repair

## Including upgrading

## Input-output equipment

7887.5

## General works

## Special

7887.55

## Data tape drives

7887.6

Analog-to-digital converters. Digital-to-analog  
converters

7887.7

## Printout equipment. Computer printers

7887.8.A-Z

## Other equipment, A-Z

7887.8.C6

## Computer output microfilm devices

7887.8.D37

## Data disk drives

7887.8.D5

## Digital plotters

## Disk drives, Data see TK7887.8.D37

7887.8.M63

## Modems

7887.8.R4

## Reading machines

7887.8.T4

## Terminals

7887.8.X18

## XY plotters

7888

## Analog computers

## Digital computers

7888.3

## General works

7888.4

## Circuits

## Including logic and switching circuits

7889.A-Z

## Special computers. By name, A-Z

7889.A37

## AIM 65

7889.A66

## Apple II

7889.A663

## Apple IIe

7889.A85

## AT&amp;T

7889.B3

## BBC microcomputer

7889.B4

## Besm

7889.C2

## CDC 6600

7889.E5

## ES 1020

7889.F44

## FELIX C-256

7889.I26

## IBM Personal Computer

7889.I5

## Illiad

7889.M33

## Macintosh

## Electronics

## Applications of electronics

## Computer engineering. Computer hardware

## Special computers. By name, A-Z -- Continued

- 7889.M55 Minsk
- 7889.R4 REAC
- 7889.S4 Seac
- 7889.S7 Strela
- 7889.S8 Swac
- 7889.T77 TRS-80
- 7889.U6 Univac
- 7889.U7 Ural
- 7889.W47 Whirlwind
- 7889.Z54 Zilog Model Z-80
- 7895.A-Z Special components and auxiliary equipment, A-Z
- 7895.A5 Amplifiers
- 7895.A65 Arithmetic units
- Associative storage see TK7895.M4
- 7895.A8 Automatic test equipment
- 7895.B33 Backplanes. Motherboards
- 7895.B87 Buses
- Cache memory see TK7895.M4
- 7895.C382 Cathode ray tube memory systems
- 7895.C39 CD-ROMs. CD-ROM drives
- 7895.C7 Cryotrons
- 7895.D28 Data loggers
- 7895.D3 Data tapes
- 7895.E42 Embedded computer systems
- 7895.E43 Embedded Internet devices
- 7895.E96 Expansion boards
- 7895.F8 Function generators
  - Cf. TK7872.F85 Function generators (Electronic instruments)
- 7895.G36 Gate array circuits
- Input-output equipment see TK7887.5+
- 7895.M3 Magnetic memory
- Memory cards see TK7895.S62
- 7895.M4 Memory systems
  - Including random access memory, read only memory, cache memory, associative storage, etc.
- 7895.M5 Microprocessors
  - Cf. TJ223.M53 Automatic control
- Motherboards see TK7895.B33
- 7895.O6 Optical equipment
- 7895.P3 Parametrons
- 7895.P38 PCMCIA cards

## Electronics

## Applications of electronics

Computer engineering. Computer hardware

Special components and auxiliary equipment, A-Z --

Continued

7895.P68

Power supply

Random access memory see TK7895.M4

Read only memory see TK7895.M4

7895.S54

Shift registers

7895.S62

Smart cards. Memory cards

7895.S65

Speech recognition systems

7895.T73

Transputers

## Optoelectronic devices. Photoelectronic devices

Including circuits manuals

For special applications, see the field of application, e.g.

TR260.5 Electric eye cameras

For general works on optoelectronics see TA1750+

8300

Periodicals, societies, congresses, etc.

8304

General works

Optical wave guides

8305

General works

8306

Optical fibers

Photoemissive tubes. Phototubes

8308

General works

8312

Photodiodes

8314

Photomultipliers

Imaging systems

8315

General works

8316

Image converters and intensifiers

Cf. TK8334 Solid-state image intensifiers

## Semiconductor devices

8320

General works

8322

Photovoltaic cells

For solar batteries see TK2960

Photoconductive cells

8330

General works

8331

Photoresistors

8332

Phototransistors

8334

Solid-state image intensifiers

## Other devices, A-Z

8360.A-Z

Light amplifiers. Optical amplifiers

8360.L48

Light modulators

8360.L5

Microresonators

8360.M53

Optical antennas

8360.O65

Optical amplifiers see TK8360.L48

8360.O67

Optical detectors



## Electronics

Optoelectronic devices. Photoelectronic devices

Other devices, A-Z -- Continued

8360.O68

Optical MEMS. Micro-optomechanical systems

8360.O69

Optical tweezers

8360.P5

Photopotentiometer

(8404)

Optical data processing systems

see TA1630+

## Nuclear engineering. Atomic power

9001

Periodicals, societies, etc.

9006

Congresses

Exhibitions. Museums

9007.A1

General works

9007.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

9008

Collected works (nonserial)

9009

Dictionaries and encyclopedias

9012

Directories

Biography

9013

Collective

9014.A-Z

Individual, A-Z

9021-9127

Country divisions (Table T1a)

Add country number in table to TK9000

9145

General works

9146

Elements. Popular works

9148

Juvenile works

9149

Laboratory manuals

9151

Handbooks, tables, etc.

Radiation environment procedures and equipment

Cf. RA569 Radioactive substances and ionizing radiation  
in public health

Cf. TK9210+ Shielding

9151.4

General works

Remote handling

9151.6

General works

9151.7

Manipulators. Glove boxes

Accidents and their prevention. Nuclear safety

For accidents or safety of nuclear power plants in  
specific places see TK1341+

9152

General works

9152.13

Emergency planning

9152.14

Human factors

9152.15

Inspection

9152.16

Risk assessment

9152.163

Earthquake engineering

9152.1645

Security measures

## Nuclear engineering. Atomic power

## Radiation environment procedures and equipment --

## Continued

9152.165

## Storage

Including temporary storage of discarded materials

For permanent disposal see TD898.17+

9152.17

## Transportation of radioactive substances

Cf. TD897.85+ Radioactive waste disposal

9152.2

## Decontamination. Decommissioning of facilities

Cf. RA569 Public health

Cf. S589.6 Agriculture

Cf. TD427.R3 Water pollution

Cf. TD887.R3 Air pollution

Cf. TD898.15+ Radioactive waste sites

9152.5

## Patents

9153

## General special

9155

## Addresses, essays, lectures

9155.5

## Nuclear engineering as a profession

## Study and teaching

9165

## General works

9165.5

## Examinations, questions, etc.

## United States

9166

## General works

9167.A-Z

## Special schools. By place, A-Z

9168.A-Z

## Other countries, A-Z

9169.A-Z

## Special schools. By place, A-Z

## Instruments. Nuclear reactor instrumentation

9178

## General works

9180

## Nuclear counters

Cf. QC787.C6 Counters

9182

## Neutron sources

9183.A-Z

## Other special instrumentation, A-Z

9183.S24

## Safety instrumentation

9183.T54

## Thermometers

## Materials

For reactor fuels, enrichment, reprocessing see TK9360+

For radioisotopes, radioactive substances see TK9400+

9185.A1

## Periodicals, societies, etc.

9185.A2-Z

## General works

9185.2.A-Z

## Special, A-Z

9185.2.G73

## Graphite

9185.2.H33

## Hafnium

9185.2.L43

## Lead

9185.2.M66

## Molybdenum

## Nuclear reactors

For nuclear power plants for electricity see TK1341+

|          |  |
|----------|--|
|          | Nuclear engineering. Atomic power        |
|          | Nuclear reactors -- Continued            |
|          | Fission reactors                         |
| 9202     | General works                            |
| 9203.A-Z | Special types, A-Z                       |
| 9203.A28 | Accelerator-driven systems               |
| 9203.B6  | Boiling water reactors                   |
| 9203.B7  | Breeder reactors                         |
| 9203.F3  | Fast reactors                            |
| 9203.F5  | Fluid fuel reactors                      |
| 9203.G3  | Gas cooled reactors                      |
| 9203.H4  | Heavy water reactors                     |
| 9203.L45 | Light water reactors                     |
| 9203.L5  | Liquid metal-cooled reactors             |
| 9203.M65 | Molten salt reactors                     |
| 9203.O7  | Organic moderated reactors               |
| 9203.P7  | Pressurized water reactors               |
| 9203.P8  | Pulsed reactors                          |
| 9203.S6  | Sodium graphite reactors                 |
| 9203.S65 | Solid fuel reactors                      |
| 9203.S86 | Superheating reactors                    |
| 9203.W37 | Water-cooled reactors                    |
| 9204     | Fusion reactors                          |
| 9207     | Fuel elements                            |
| 9207.5   | Fuel claddings                           |
| 9209     | Moderators                               |
|          | Shielding                                |
| 9210     | General works                            |
| 9211     | Containment                              |
| 9211.5   | Nuclear pressure vessels                 |
| 9211.7   | Nuclear power piping                     |
| 9212     | Cooling                                  |
| 9220     | Control rooms for nuclear facilities     |
| 9230     | Nuclear reactors for propulsion          |
|          | Cf. TJ623 Nuclear locomotives            |
|          | Cf. TL704.1 Atomic engines for aircraft  |
|          | Cf. TL783.5 Nuclear rockets              |
|          | Cf. VM774+ Marine nuclear reactor plants |
| 9340     | Particle accelerators                    |
| 9350     | Chemical processes. Radiochemistry       |
|          | Reactor fuels. Enrichment. Reprocessing  |
| 9360     | General works                            |
| 9363     | Uranium as fuel                          |
| 9365     | Plutonium as fuel                        |
|          | Radioisotopes. Radioactive substances    |
| 9400     | General works                            |

- Nuclear engineering. Atomic power
- Radioisotopes. Radioactive substances -- Continued
- 9401 Catalogs, pricelists, etc.
- Electricity for amateurs. Amateur constructors' manuals
- 9900 Periodicals, societies, etc.
- 9901 General works
- 9909 Magnetolectric machines
- 9911 Generators and motors
- 9915 Transformers
- 9917 Electric batteries
- 9918 Solar batteries. Solar cells
- 9921 Electric lighting and lamps
  - Cf. TT197.5.L34 Woodwork
  - Cf. TT897.2 Decorative crafts
- Electric bells see TK7108+
- Telegraph
- 9941 General works
- 9946 Wireless telegraph
- 9951 Telephone
- Radio. Wireless telephone
- 9956 General works
- 9957 Microwave communication systems
  - Cf. TK5103.2+ wireless communication systems
- Television
- 9960 General works
- 9961 Video tape recorders. Video recording. Home video systems
  - Cf. TR896+ Home video photography
- 9962 Satellite television. Home earth stations
- Electronics (General)
- 9965 General works
- 9966 Integrated circuits
- 9967 Magnetic recorders and recording
- 9968 Sound systems
  - Including high fidelity and stereophonic systems
- 9969 Computers
- Home computer networks, including amateurs' manuals see TK5105.75
- 9971 Electronic games and toys
  - Including video games

## Motor vehicles. Aeronautics. Astronautics

## Motor vehicles

Including automotive engineering

Cf. GV1020+ Automobile travel

## Periodicals and societies

Arrange by language of publication

- 1 English
- 2 French
- 3 German
- 4 Other languages (not A-Z)

## (5) Yearbooks

see TL1+

## 6 Congresses

## Exhibitions. Museums. Collectors and collecting

Cf. TL152.2 Restoration of automobiles

## 7.A1 General works

## 7.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

## 8 Collected works (nonserial)

## 9 Dictionaries. Encyclopedias

## Communication of automotive information

## 10 General works

## 11 Computer network resources

Including the Internet

## 12 Directories

## 15 History. Pictorial works

## 21-127 Special countries (Table T1a)

Add country number in table to TL0

Including registers

## Biography

## 139 Collective

## 140.A-Z Individual, A-Z

## General works

Cf. TL200+ Automobiles

## 144 Early to 1890

## 145 1890-

## 146 Elementary textbooks

## 146.5 Popular works

## 147 Juvenile works

## 151 Manuals, pocketbooks, etc.

## Motor vehicle operation. Automobile operation

## Cost of operation

## 151.5 General works

## 151.6 Fuel consumption

## Maintenance and repair

## 152 General works

## 152.15 Cleaning. Detailing

- Motor vehicles
  - Motor vehicle operation. Automobile operation
  - Maintenance and repair -- Continued
  - 152.2 Restoration
  - 152.25 Safety measures
  - Drivers
    - Including health and psychology
    - Cf. HD8039.A76+ Automobile driving as an occupation
    - Cf. HE5613.5+ Traffic accidents, safety, etc.
  - 152.3 General works
  - 152.35 Medical and psychological examination
  - 152.4 Drivers' tests
  - Driving
    - 152.5 General works
    - Special countries
      - 152.52 United States
      - 152.55.A-Z Other countries, A-Z
    - 152.58 Stunt driving
  - Driver education
    - 152.6 General works
    - 152.65 Elementary and secondary school courses
    - 152.66.A-Z By region or country, A-Z
    - 152.7.A-Z Special methods and equipment, A-Z
    - 152.7.D7 Driving simulators
  - 152.8 Automatic control
    - Cf. TE228.3+ Intelligent transportation systems
  - 153 Service stations
  - 153.5 Lubrication and lubricants
  - 153.7 Towing
  - 154 General special
  - 155 Addresses, essays, lectures
  - 156 Study and teaching. Automobile schools
  - 157 Examinations, questions, etc.
  - 158 Research
  - Automobile equipment and supplies
    - Including parts catalogs
    - Cf. TL240+ Design, construction and equipment
  - 159 General works
  - 159.5 Safety appliances. Air bags. Child seats. Seat belts
    - Cf. HE5620.S34 Seat belt use
    - Cf. TL242 Safety factors. Safety standards
  - 160 Catalogs of dealers
    - For special motive powers see TL200+
  - 162 Automobile purchasing. Buyers' guides
  - 165 Motor vehicle fleets

## Motor vehicles -- Continued

- 175      Parking facilities
  - Including parking lots and parking garages
  - Cf. HE336.P37 Parking
- 200      Special automobiles. By power
  - Steam automobiles
  - Steam wagons, trucks, etc. see TJ705
  - Gasoline automobiles
    - Where possible use TL144+
- 205      General works
- 206      Popular works. Juvenile works
- 207      Manuals, pocketbooks, etc.
- (208)    Maintenance and repair
  - see TL152+
- 209      General special
- Construction details
  - Motors. Engines
    - Cf. TJ782+ Internal combustion engines
  - 210      General works
  - 210.5    Two-stroke cycle engines
  - 210.7    Wankel engines
  - 212      Carburetors and carburetion
  - 213      Ignition devices. Magnetos
  - 214.A-Z   Other, A-Z
    - 214.A4   Air filters
    - 214.B43   Bearings
    - 214.C35   Camshafts
    - 214.C64   Control systems
    - Cooling system see TL214.R3
    - 214.C73   Crankshafts
    - 214.C93   Cylinders. Cylinder heads. Cylinder blocks
    - 214.E93   Exhaust systems
    - 214.F78   Fuel injection systems
    - 214.F8   Fuel systems
    - 214.G37   Gaskets
    - Low pollution combustion see TL214.P6
    - 214.O5   Oil system
    - 214.P57   Pistons
    - 214.P6   Pollution control devices. Low pollution combustion
      - Cf. TD886.5 Automobile exhaust pollution
    - 214.R3   Radiators. Cooling system
    - 214.S8   Superchargers
    - 214.T55   Timing belts. Timing chains
    - Timing chains see TL214.T55
    - 214.T87   Turbochargers
    - 214.V3   Valves

## Motor vehicles

## Special automobiles. By power

## Gasoline automobiles -- Continued

215.A-Z

## Special makes, A-Z

Including catalogs, handbooks, etc.

215.B25

BMW

215.B4

Bentley

215.B82

Bugatti

215.B84

Buick

215.C27

Cadillac

215.C44

Challenger

215.C48

Chevelle

215.C5

Chevrolet

215.C6

Corvette

215.F47

Ferrari

215.F69

Focus

215.G4

General Motors

215.L33

Lamborghini

215.M8

Mustang

215.N35

Nano

215.O68

Optima

215.V544

Viper

216.5

## Alternative fuel vehicles

217

## Alcohol automobiles

## Electric vehicles and their batteries, etc.

220

## General works

221.13

## Fuel cells for vehicles

221.15

## Hybrid vehicles. Hybrid cars

222

## Solar vehicles. Solar cars

223

## Industrial vehicles and trucks

225

## Compressed-air automobiles

## Gas turbine automobiles

226

## General works

227

## Automotive gas turbines

228

## Natural gas vehicles

For gas producer automobiles see TL229.G3

229.A-Z

## Other, A-Z

229.A25

## Acetylene

## Alcohol see TL217

(229.A5)

## Amphibious

see TL235.63

(229.C66)

## Compressed natural gas

see TL228

229.D5

## Diesel

229.G3

## Gas producer

(229.G33)

## Gases, Compressed

see TL228



## Motor vehicles

## Special automobiles. By power

## Other, A-Z -- Continued

229.H9

Hydrogen

229.L56

Liquid nitrogen

229.M48

Methyl ether

(229.N38)

Natural gas

see TL228

Nitrogen, Liquid see TL229.L56

## Automobiles for freight, etc. Trucks

Including vans and sport utility vehicles

For steam wagons, trucks, etc. see TJ705

For truck-mounted campers and coaches see TL298

Cf. TL297.6 Truck trailers

230.A1

Periodicals, societies, etc.

230.A2-Z

General works

230.12

Pictorial works

230.15

Juvenile works

230.2

Maintenance and repair

230.3

Truck drivers, driver training and driving

Cf. HD7269.A+ Industrial hygiene and welfare of truck drivers

Cf. HD8039.A76+ Automobile driving as an occupation

Cf. HE5601+ Regulations and special problems

230.5.A-Z

Special types, makes, etc., A-Z

230.5.B68

BMW X3 sport utility vehicle

230.5.F6

Four Wheel Drive Vehicle

230.5.N57

Nissan trucks

230.5.W45

White trucks

## Buses

Cf. HE5601+ Automotive transportation (economic aspects)

232

General works

232.2

Maintenance and repair

232.3

Bus drivers, driver training, and driving

232.5

## Taxicabs

232.7

## Limousines

## Tractors

Cf. S711+ Transportation and power transmission machinery (Use on farms)

Cf. TJ700 Steam traction engines

233.A1

Periodicals, societies, etc.

233.A2-Z

General works

233.15

Juvenile works

233.2

Maintenance and repair

233.25

Conservation and restoration. Collectors and collecting

233.3

Tractor driving. Tractor pulling (Motorsports)

## Motor vehicles

## Tractors -- Continued

233.6 Special types, makes, etc., A-Z

233.8 Models

## Tracklaying vehicles

For military tanks see UG446.5

234 General works

234.2 Snowmobiles

Cf. GV856.4+ Snowmobiling

235 Automobile trains

## Off-road vehicles

Including off-road trucks and all terrain vehicles

For snowmobiles see TL234.2

For dune buggies see TL236.7

For trail bikes see TL441

235.6 General works

235.63 Amphibious vehicles

235.65.A-Z Special makes, A-Z

235.7 Off-road vehicle driving

Including all terrain vehicle driving

235.8 Ambulances, hearses, etc.

Cf. RA995+ Ambulance service

## Racing automobiles. Sports cars

Class here works on racing or sports cars in general and  
special makes of racing or sports cars

For special classes of racing automobiles, see the class, e.g.,

Sprint cars see TL236.27 , Rally cars see TL236.4 , Karts  
see TL236.5 , etc.

236 General works

236.15.A-Z Special makes, A-Z

236.15.M35 McLaren

## Dragsters

236.2 General works

236.23 Funny cars

236.265 Formula One automobiles

236.27 Sprint cars

236.28 Stock cars

236.3 Hot rods. Street rods

236.4 Rally cars

236.5 Karts

236.6 Midget cars

236.7 Dune buggies

Cf. GV1029.9.D8 Racing

## Models

Cf. GV1570 Model car racing

237 General works

237.2 Collectors and collecting

## Motor vehicles -- Continued

## Design, construction and equipment

Cf. TL210+ Motors

240

General works

240.2

Amateurs' manuals. Kit cars

240.5.A-Z

Special materials, A-Z

For materials of a special component, see the component

240.5.A46

Alloys

240.5.A48

Aluminum

240.5.C65

Composite materials

240.5.G56

Glass

240.5.M33

Magnesium

240.5.P42

Plastics

240.5.S74

Steel

240.5.W64

Wood

241

Fires and fire prevention

242

Safety factors. Safety standards. Crashworthiness

## Dynamics

Including effect of soil mechanics

For traction see TL295

243

General works

245

Aerodynamics

245.2

Moments. Pitch. Yaw. Roll

245.5

Handling characteristics

245.8

Stability

246

Vibration. Noise

250

Human engineering in design

Including trucks, buses, etc.

253

Automotive drafting

## Special topics

Motors see TL210+

Frame. Chassis. Carriage body

255

General works

255.15

Bodies-in-white

255.2

Customizing. Decorating. Painting

255.6

Seats

255.8

Metalwork

256

Upholstery

256.5

Windows and windshields

## Springs and suspension

257

General works

257.3

Air suspensions

257.5

Shock absorbers

259

Steering gear

Running gear. Power trains

260

General works

261

Clutches

|        |   |
|--------|---|
|        | Motor vehicles  |
|        | Design, construction and equipment  |
|        | Special topics  |
|        | Running gear. Power trains -- Continued   |
|        | Transmission devices  |
| 262    | General works   |
| 263    | Automatic transmission devices  |
| 265    | Transaxles  |
|        | Brakes  |
| 269    | General works   |
| 269.2  | Air brakes  |
| 269.3  | Antilock brake systems  |
| 269.36 | Disc brakes   |
| 269.37 | Drum brakes   |
| 270    | Wheels and tires  |
|        | Heating and ventilation equipment   |
| 271    | General works   |
| 271.5  | Air conditioning  |
| 272    | Electric equipment. Batteries   |
|        | Including starting, lighting and ignition devices, etc.                           |
|        | Cf. TK2921 Primary cells  |
|        | Cf. TK2941 Storage batteries  |
|        | Cf. TL213 Ignition  |
|        | Cf. TL220+ Batteries for electric automobiles                                     |
|        | Electronic equipment  |
| 272.5  | General works   |
| 272.52 | Collision avoidance systems   |
| 272.53 | Computers   |
|        | For engine control modules see TL214.C64  |
| 272.54 | Automotive event data recorders   |
| 272.55 | Display systems   |
|        | Audio equipment see TK7881.85   |
| 272.57 | Driver assistance systems   |
| 272.58 | Telematics  |
| 273    | Automobile headlights   |
| 274    | Automobile horns  |
| 275    | Other details   |
| 278    | Manufacturing. Factory methods and equipment                                      |
| 278.5  | Quality standards   |
|        | Including QS-9000   |
| 280    | Patents   |
| 285    | Testing (General)   |
|        | Including motor vehicle safety inspection. For emissions inspection, see TL214.P6 |
|        | Cf. TL242 Safety factors in motor vehicle design and construction                 |
| 290    | Endurance tests   |

## Motor vehicles -- Continued

- 295 Traction. Skidding. Traction tests
  - Cf. TE450 Roads and pavements
- 296 Industrial power trucks
- 296.5 Loaders (Automotive)
- Trailers
  - Cf. GV198.5+ Trailer camping
  - Cf. TH4819.M6 Mobile home construction
  - Cf. TX1100+ Mobile home living
- 297 General works
- 297.2 Boat trailers
- 297.6 Truck trailers
  - Including piggyback trailers
- 298 Truck-mounted campers and coaches
- 390 Cyclecars
- Cycles
  - Cf. GV1040+ Cycling
- 400 General works
  - Including history
- 405 Early forms
  - Including velocipedes
- Bicycles and tricycles
  - Cf. HD9993.B54+ Bicycle industry
  - Cf. HE5736+ Bicycle transportation
- 410 General works
- 412 Juvenile works
- Motor bicycles see TL443
- Details. Parts
  - 414 General works
  - 415 Frame
  - 420 Driving gear
  - 422 Wheels
  - 425 Tires
  - 430 Repairs
  - 435 Catalogs and other trade publications
    - Including cycles
  - 437 Patents
    - Including cycles and motorcycles
  - 437.5.A-Z Special types, makes, etc., A-Z
  - 437.5.V45 Velomobiles
  - 438 Models
    - Including cycles and motorcycles
- Motorcycles
  - 439 Dictionaries
  - 439.5.A-Z By region or country, A-Z
  - 440 General works
  - 440.15 Juvenile works

## Cycles

## Motorcycles -- Continued

- 440.2 Motorcyclists
- 440.5 Motorcycle riding
- 441 Trail bikes. Dirt bikes
- Racing motorcycles
  - Cf. GV1060+ Motorcycle racing
- 442 General works
- 442.5 Drag bikes
- 442.7 Choppers and bobbers
  - Including home-built and customized motorcycles
- 443 Motor bicycles
- 444 Maintenance and repair
- 444.2 Conservation and restoration. Collectors and collecting
- 444.5 Workshops and shop practice
- 445 Motors, etc.
- 448.A-Z Special types, makes, etc. A-Z
  - e.g.
  - 448.A47 Ariel
  - 448.B18 BMW
  - 448.C54 Cleveland
  - 448.D8 Ducati
  - 448.E44 Electric motorcycles
  - 448.H3 Harley-Davidson
  - 448.H6 Honda
  - 448.I5 Indian
  - 448.K38 Kawasaki
  - 448.S8 Suzuki
  - 448.T7 Triumph
  - 448.Y3 Yamaha
- Motor scooters
  - 450 General works
  - 453.A-Z Special makes, A-Z
    - 453.C87 Cushman
    - 453.H66 Honda
    - 453.L3 Lambretta
    - 453.T84 Tul'skiï
    - 453.V47 Vespa
- 460 Autosleds
- Roving vehicles (Astronautics)
  - 475 General works
  - 480 Moon cars
  - 482 Coaster cars
    - Cf. GV1029.7 Soapbox racing, etc.
  - 483 Pedal cars
  - 484 Golf carts

## Aeronautics. Aeronautical engineering

Cf. GV750+ Air sports

Cf. HD9711.3 Lighter-than-air craft industry (Economic aspects)

Cf. HD9711.5 Aerospace industry

Cf. HE9761+ Air transportation

Cf. UG622+ Military aeronautics. Air warfare

Cf. VG90+ Naval aeronautics. Naval air warfare

## Periodicals, societies, yearbooks, etc.

Cf. TL521+ Serial documents of special countries, e. g.

TL521.A3-TL521.A35, U.S. National Advisory

Committee for Aeronautics; TL526.G7A3-

TL526.G7A4, Great Britain Aeronautical Research

Council

## International

500

## General

500.5

## International Civil Aviation Organization

Including technical material and general collections

published by the organization that includes material of  
a technical nature

For administrative material see HE9762.5

501

## English language

502

## French language

503

## German language

504

## Other, not A-Z by language

505

## Congresses

## Exhibitions. Museums. Collectors and collecting

506.A1

## General works

506.A2-Z

## By region or country, A-Z

Subarrange each country (except the United States) by Table  
T4b

## United States

506.U5

## General works

506.U6A-.U6Z

## Local, A-Z

507

## Collected works (nonserial)

508

## Scrapbooks

509

## Dictionaries, encyclopedias, etc. Nomenclature. Symbols.

## Abbreviations

## Directories. Registers

512

## General works

Registers of aircraft see HE9769.A+

512.7

## Registers of pilots

513

## Patents

514

## Catalogs of materials and equipment (General)

## History

515

## General works

516

## Antiquities and legends

## Aeronautics. Aeronautical engineering -- Continued

## Special regions or countries

Cf. TL539+ Biography

## America. United States

521

## General works

## U.S. National Aeronautics and Space Administration

(NASA)

For special space research centers see TL862.A+

For NASA launch complexes see TL4027.A+

521.3.A-Z

## Serials and collected sets, A-Z

e.g.

521.3.C6

## Contractor report

521.312

## Monographs

521.5

## Regions

522.A-.W

## States, A-W

523

## Canada

524.A-Z

## Latin America, Central America and West Indies. By

country or island, A-Z

525.A-Z

## South America, A-Z

526.A-Z

## Europe, A-Z

e.g.

526.G7

## Great Britain

527.A-Z

## Asia, A-Z

e.g.

527.I6

## Indonesia

527.P4

## Philippines

528.A-Z

## Africa, A-Z

529

## Australia

529.5

## New Zealand

## Pacific Islands

530.A1

## General works

530.A5-Z

## Special islands, A-Z

531

## Transoceanic flights

532

## Arctic regions. Antarctica

537

## Awards, prizes, etc. Competitions

Cf. TL721.5+ Air meets

538

## Badges, insignia, etc.

## Biography

539

## Collective

540.A-Z

## Individual, A-Z

e.g.

540.L5

## Lindbergh

## General works

544

## Early to 1900

Cf. TL516 Antiquities and legends

545

## 1900-

546

## Textbooks



- Aeronautics. Aeronautical engineering
- General works -- Continued
- 546.5 Examinations, questions, etc.
- 546.7 Popular works
- 547 Juvenile works
- 549 Pictorial works
- 551 Handbooks, pocketbooks, tables, etc.
- 551.5 High-speed aeronautics
  - For supersonic and transonic aerodynamics see TL571
  - For hypersonic aerodynamics see TL571.5
- 552 Civil aviation (Technology)
  - Cf. HE9761+ Air transportation
  - Cf. TL515+ History of aeronautics
  - Cf. TL664+ Use of airships
  - Cf. TL719.92+ Special uses of airplanes
- Miscellaneous aspects of the general subject
- 553 General works
  - Accidents and their prevention. Air safety
    - Cf. HE9784+ Air transportation
    - Cf. TL697.S3 Safety devices (General)
- 553.5 General works
  - By region or country
    - United States
      - 553.52 General works
      - 553.525.A-Z By region or state, A-Z
      - 553.53.A-Z Other regions or countries, A-Z
  - Geography and aviation see G142
  - Aviation risks in life insurance see HG8810
  - Aviation insurance see HG9972+
- 553.54 Aircraft bird strikes
  - For airport bird control see TL725.3.B5
- 553.55 Near misses
- 553.6 Human engineering in aeronautics
- 553.7 Survival after airplane accidents
- 553.8 Search and rescue
  - Survival and rescue adventures and narratives
- 553.9.A1 Periodicals, societies, etc.
- 553.9.A2-Z General works
  - Aeronautics in art see N8217.A4
- (554) Aeronautics in literature
  - see class P
  - Wit and humor see PN6231.A4

## Aeronautics. Aeronautical engineering

## Miscellaneous aspects of the general subject -- Continued

555

## Physical and mental requirements for pilots

Including tests

For clinical aspects see RC1050+

Cf. RA615.2 Public health aspects

Cf. RA641.5 Transmission of disease

Cf. RA655+ Quarantine

## Meteorology in aeronautics. Aeronautical meteorology

556

## General works

556.5

## Study and teaching

557.A-Z

## Special, A-Z

557.A5

Air currents. Winds

Atmospheric electricity see TL557.S65

557.A8

Atmospheric temperature

Cf. TL557.D4 Density altitude

557.C4

Charts

557.C6

Clouds

557.C7

Condensation trails

557.D4

Density altitude. Density altitude computers

Density altitude computers see TL557.D4

557.F6

Fog control

557.H3

Hail

557.I3

Ice prevention

557.R4

Reporting and forecasting

557.S65

Static electricity. Atmospheric electricity

557.S7

Storms

557.V5

Visibility

Winds see TL557.A5

557.V64

Volcanic ash

558.A-Z

## By region or country, A-Z

e.g.

558.A1

General

558.A5

Antarctica

558.F8

France

558.G4

Germany

559

## Addresses, essays, lectures

## Study and teaching

Cf. LB1594.5 Elementary education

560

## General works

## United States

560.1

General works

560.2.A-Z

Special schools, A-Z

Employee training in factories

560.25.A1

General works

560.25.A2-Z

By company, A-Z

560.3.A-Z

Other countries, A-Z

- Aeronautics. Aeronautical engineering
  - Study and teaching
    - Other countries, A-Z -- Continued
- 560.4.A-Z
  - Special schools, A-Z
  - Flying schools see TL713.A+
- 561 Aeronautics as a vocation
- 563 Electronic data processing
- Communication of aeronautics informations
- 563.5 General works
- 564 Information services
- 564.5 Language. Authorship
- Aeronautical research
  - Cf. UG640+ Military aeronautical research
- 565 General works
- Research equipment. Laboratory construction and layout
- 566 General works
- 567.A-Z Special, A-Z
- 567.B3 Balances
- 567.B33 Ballistic ranges
- 567.B4 Basins. Water channels
- 567.I6 Instruments
- 567.M6 Models for wind tunnel and water testing
- 567.N6 Nozzles
- 567.P6 Plane table
- 567.R47 Research aircraft
- 567.S4 Shock tubes
- 567.T6 Towing apparatus
- Water channels see TL567.B4
- 567.W5 Wind tunnels
- 568.A-Z Special institutions, A-Z
  - Including research conducted by governments, universities or others
  - For the research reports, transactions and other serial publications of such institutions see TL500+
- Mechanics of flight: Aerodynamics
- 570 General works
- 570.3 Dictionaries and encyclopedias
- 571 Supersonic aerodynamics (General)
  - Including transonic aerodynamics
  - For special topics see TL574.A+
- 571.5 Hypersonic aerodynamics (General)
  - For special topics see TL574.A+
  - Cf. TL683.5 Hypersonic planes
- 573 General special
- 574.A-Z Special topics, A-Z
- 574.A37 Aeroelasticity
- 574.A4 Aerofoils. "Profils d'ailes"

## Aeronautics. Aeronautical engineering

## Mechanics of flight: Aerodynamics

## Special topics, A-Z -- Continued

- 574.A44      Aeroservoelasticity
- 574.A45      Aerothermodynamics. Aerodynamic heating
- Aerodynamic heating see TL574.A45
- 574.B3      Base flow
- 574.B6      Boundary layer
- Burbling see TL574.T8
- 574.C3      Cascades
- 574.C4      Compressibility
- Compressibility burbles see TL574.T8
- 574.C6      Control
- Damping see TL574.S7
- 574.D6      Downwash
- 574.D7      Drag. Head resistance
- 574.F5      Flow
- 574.F6      Flutter
- 574.F7      Friction
- Ground cushion see TL574.G7
- 574.G7      Ground effect. Ground cushion
- Head resistance see TL574.D7
- 574.I5      Interference
- 574.L3      Laminar flow
- 574.L4      Leading edges
- 574.L5      Lift. Thrust
- 574.M3      Magnus effect
- 574.M6      Moments. Pitch. Yaw. Roll
- 574.N6      Noise
- Oscillations see TL574.S7
- Pitch see TL574.M6
- 574.P7      Pressure. Pressure distribution. Wing load
- Pressure distribution see TL574.P7
- Resistance see TL574.D7
- Resistance, Air see TL570+
- Roll see TL574.M6
- 574.S4      Shock waves
- 574.S55      Sonic boom
- 574.S6      Spinning
- 574.S7      Stability. Oscillations. Damping
- 574.S74      Stalling
- Thrust see TL574.L5
- 574.T8      Turbulence. Burbling
- Including compressibility burbles
- 574.U5      Unsteady flow
- 574.V5      Vibration
- 574.V6      Vortex theory

- Aeronautics. Aeronautical engineering
  - Mechanics of flight: Aerodynamics
    - Special topics, A-Z -- Continued
- 574.W3
  - Wakes
  - Wing load see TL574.P7
  - Yaw see TL574.M6
- 575
  - Natural flight
    - Cf. QL698.7 Flight of birds
- 576
  - Soaring
- 577
  - Hovering
- 578
  - Aerostatics
- Air navigation. Astronomy and navigation for air pilots
  - General works
  - Logbooks, maps, charts, tables, etc.
    - Cf. QB7+ Ephemerides
  - Special methods. Latitude and longitude
    - Cf. VK565 Navigation
- 586
  - General works
- 587
  - Logbooks, maps, charts, tables, etc.
    - Cf. QB7+ Ephemerides
  - Special methods. Latitude and longitude
    - Cf. VK565 Navigation
- 588
  - General works
- 588.5
  - Inertial navigation
- 588.7
  - Performance-based navigation
- Instruments
  - General works
  - Special, A-Z
    - Accelerometers
    - Air-speed indicators
    - Altimeter
    - Anemometer see QC932
    - Artificial horizons
    - Autosyn indicator
    - Barograph
    - Cinemitrailluse
    - Compass (Gyroscope)
    - Compass (Magnetic)
    - Drift indicator
    - Earth inductor compass
    - Flight recorders
    - Navigation computer
    - Optical gyroscope
    - Pressure instruments
    - Radio compass
      - see TL696.C7
    - Rate of climb indicator
    - Sextant
    - Stall warning systems
    - Tensionmeter
    - Theodolite
    - Thermometers
- 589
  - General works
- 589.2.A-Z
  - Special, A-Z
    - Accelerometers
    - Air-speed indicators
    - Altimeter
    - Anemometer see QC932
    - Artificial horizons
    - Autosyn indicator
    - Barograph
    - Cinemitrailluse
    - Compass (Gyroscope)
    - Compass (Magnetic)
    - Drift indicator
    - Earth inductor compass
    - Flight recorders
    - Navigation computer
    - Optical gyroscope
    - Pressure instruments
    - Radio compass
      - see TL696.C7
    - Rate of climb indicator
    - Sextant
    - Stall warning systems
    - Tensionmeter
    - Theodolite
    - Thermometers
- 589.2.A3
  - Accelerometers
- 589.2.A5
  - Air-speed indicators
- 589.2.A6
  - Altimeter
- 589.2.A78
  - Anemometer see QC932
- 589.2.A8
  - Artificial horizons
- 589.2.B3
  - Autosyn indicator
- 589.2.C5
  - Barograph
- 589.2.C58
  - Cinemitrailluse
- 589.2.C6
  - Compass (Gyroscope)
- 589.2.C6
  - Compass (Magnetic)
- 589.2.D7
  - Drift indicator
- 589.2.E2
  - Earth inductor compass
- 589.2.F5
  - Flight recorders
- 589.2.N3
  - Navigation computer
- 589.2.O6
  - Optical gyroscope
- 589.2.P7
  - Pressure instruments
- (589.2.R2)
  - Radio compass
    - see TL696.C7
- 589.2.R3
  - Rate of climb indicator
- 589.2.S4
  - Sextant
- 589.2.S7
  - Stall warning systems
- 589.2.T4
  - Tensionmeter
- 589.2.T5
  - Theodolite
- 589.2.T53
  - Thermometers

- Aeronautics. Aeronautical engineering
  - Instruments
    - Special, A-Z -- Continued
- 589.2.T8 Turn and bank indicator
- Display systems
  - General works
- 589.3 Special, A-Z
- 589.35.A-Z Geographical displays
- 589.35.G46 Head-up displays
- 589.35.H42 Helmet-mounted displays
- 589.35.H44 Guidance systems and automatic control
  - Including general works on drone aircraft guidance and control systems
- 589.4 General works
- 589.5 Automatic pilots. Gyropilot
- Engine instruments
  - General works
- 589.6 Special, A-Z
- 589.7.A-Z Tachometer
- 589.7.T3 Sailing directions. Pilot guides see TL726+
- Aircraft (General)
  - Including both lighter-than-air and heavier-than-air
- 600 General works
- 603 Identification marks and symbols
  - Cf. TL694.I4 Identification of aircraft by radar signal (IFF equipment)
- Lighter-than-air. Aerostation
  - General works
- 605 Balloons
  - Including free spheric balloons
- 609 Periodicals, societies, etc.
- 610 General works
- 612 Accidents
- 615 General special
- History
  - General works
- 616 Invention and early history to 1800
  - Including the Montgolfiers
- 617 1800-
- 618 Special ascensions. Special aeronauts. Personal narratives
- 620.A1 Collections
- 620.A2-Z By name of aeronaut, A-Z
  - e.g.
- 620.B6 Blanchard
- 620.F6 Flammarion
- 620.G6 Goddard, Eugene

## Aeronautics. Aeronautical engineering

## Aircraft (General)

## Lighter-than-air. Aerostation

## Balloons

## Special ascensions. Special aeronauts. Personal narratives

## By name of aeronaut, A-Z -- Continued

620.G7

Green, Charles

620.L8

Lunardi

620.O7

Orlandi

620.P5

Piccard

620.R6

Robert brothers

Class here ascensions of the Robert brothers (Anne-Jean Robert, 1758-1820 and Nicolas Louis Robert, 1761-1828)

620.S55

Silberer

620.T5

Tissandier

620.T6

Tournachon

621.A-Z

Special balloons, A-Z

622

Design and construction

623

Rigging

625.A-Z

Parts and equipment, A-Z

625.A6

Anchor

625.B2

Ballast

625.B3

Ballonet

625.B4

Basket

625.D7

Drag rope

625.E6

Envelope

Instruments see TL589+

625.N4

Net

625.R5

Rip panel

625.V3

Valves

## Operations of free balloons

626

Instructions and textbooks

626.5

Licensing of balloon pilots

627

## Use of free balloons

Cf. GV762+ Air sports and racing

Cf. QC879.3+ Meteorology

Cf. UG640+ Military aeronautics

630

## Pilot balloons

631

## Sounding balloons

Cf. QC879.3+ Meteorology

632

## Jumping balloons and balloon jumping

633

## Toy and propaganda balloons

## Captive balloons

634

General and spherical

635

Kite balloons

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Lighter-than-air. Aerostation
      - Balloons
        - Captive balloons -- Continued
        - 636 Equipment for captive balloons
        - 637 Use of captive balloons
          - Use in war see UG640+
        - 638 Hot air balloons
          - Early history see TL616+
        - 639 Miscellaneous projects
          - Including balloon railways
      - Airships
        - 650 General works
        - 650.5 Juvenile works
        - 651 General special
          - Including discussions of the possibility of dirigibles, airships vs. airplanes, controversial material, safety, etc.
        - 654.A-Z Special projects to 1900. By name of inventor, etc., A-Z
          - e.g.
          - 654.D8 Dupuy de Lôme
          - 654.G5 Giffard
        - Modern airships
          - 655 General works
          - Pressure airships
            - 656 General works
            - 656.2 Nonrigid. Blimps
            - 656.4 Semirigid
            - 656.6 Metal-clad
          - 657 Rigid airships
        - 658.A-Z Special makes, A-Z
          - e.g.
          - 658.Z4 Zeppelin
        - 659.A-Z Individual ships, A-Z. Special voyages. Personal narratives
          - e.g.
          - 659.A4 Akron
          - 659.G7 Graf Zeppelin
          - 659.H5 Hindenberg
        - 660 Design and construction
          - 660.1 Rigging
          - 660.2 Strains and stresses
          - 660.3 Performance. Performance calculation
        - Testing
          - 660.4 General works
          - 660.5 Model testing



- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Lighter-than-air. Aerostation
      - Airships -- Continued
        - Details and parts
          - General works
            - 661
            - 662.A-Z
            - 662.B3
            - 662.B7
            - 662.C3
            - 662.C6
            - 662.E6
            - 662.F7
            - 662.G3
            - 662.K4
            - Motor see TL701+
            - Propellers see TL705+
            - 662.S7
            - 662.S8
            - 663
          - Stabilizers
            - 663
          - Steering apparatus
            - 663
        - Operation of airships
          - 663
        - Use of airships
          - 664
        - General works
          - 664
        - Transportation see HE9770.A4
        - War
          - 664.2
        - Other
          - 664.3
        - Cf. G599 Polar exploration
  - Materials and accessories for lighter-than-air craft
    - General works
      - 665
    - Gas, hydrogen, helium. Inflation machinery
      - 666
    - Other special see TL699.A+
  - Lighter-than-air craft industry (Technical aspects)
    - Cf. HD9711.3 Lighter-than-air craft industry
      - (Economic aspects)
  - General works
    - 667
  - Special companies, A-Z
    - 668.A-Z
- Heavier-than-air craft
  - Airplanes
    - Periodicals see TL500+
    - General works
      - 670
    - History
      - For juvenile works see TL547
      - General works
        - 670.3
      - Development of heavier-than-air craft before 1914
        - 670.5
      - Including models and gliders
        - 670.7.A-Z
      - Special projects before 1914, A-Z
        - 670.7.L3
      - e.g.
        - Langley

- Aeronautics. Aeronautical engineering
  - Aircraft (General)
    - Heavier-than-air craft
      - Airplanes
        - History
          - Special projects before 1914, A-Z -- Continued
          - Maxim
        - General special
      - General works
        - For juvenile works see TL547
    - Airworthiness requirements. Specifications.
      - Standards
      - Collectors and collecting see TL506.A1+
    - Design and construction
    - Drafting and blueprint reading
    - Manufacturing. Factory equipment and methods
      - Cf. HD9711+ Airplane industry
      - Cf. TL724+ Airplane industry (Technical aspects)
    - Monoplane, biplane, multiplane characteristics
      - (Comparative)
    - Performance. Performance calculation. Handling
      - characteristics
    - Rigging, bracing, welding, etc.
    - Stability see TL574.S7
    - Structural analysis and design of air frames
    - Noise
      - Cf. TD893.6.A57 Noise control
    - Testing. Inspection
    - Model testing
    - Purchasing
    - Maintenance and repair
    - Conservation and restoration
    - Details and parts
      - Supporting surfaces
        - General works
        - Special, A-Z
          - Angle of incidence
          - Camber
          - Canard wings
          - Cruciform wings
          - Decalage
          - Delta wings see TL673.T7
          - Dihedral angle
          - Duct inlets
          - Flaps
          - Gap
          - Oblique wings

|         |  |
|---------|--|
|         | Aeronautics. Aeronautical engineering      |
|         | Aircraft (General)                         |
|         | Heavier-than-air craft                     |
|         | Airplanes                                  |
|         | Details and parts                          |
|         | Supporting surfaces                        |
|         | Special, A-Z -- Continued                  |
| 673.O4  | Ogee wings                                 |
| 673.O8  | Overhang                                   |
| 673.P37 | Parawings                                  |
| 673.R4  | Rectangular wings                          |
| 673.S4  | Section                                    |
|         | Shielding see TL673.T4                     |
| 673.S6  | Slotted wings                              |
| 673.S7  | Stagger                                    |
| 673.S9  | Sweepback                                  |
|         | Taper see TL673.T4                         |
| 673.T4  | Tips of wings. Taper. Shielding            |
| 673.T7  | Triangular wings. Delta wings              |
| 673.W3  | Washin and washout                         |
| 674     | Structural parts and details               |
|         | Including ribs, spars, struts, wires, etc. |
| 675     | Folding wings                              |
|         | Control and stabilizing surfaces           |
| 676     | General works                              |
| 677.A-Z | Special, A-Z                               |
| 677.A5  | Ailerons                                   |
| 677.E6  | Elevators                                  |
| 677.F5  | Fins. Vertical stabilizer                  |
| 677.R8  | Rudder                                     |
| 677.S8  | Stabilizer. Tailplane                      |
|         | Tailplane see TL677.S8                     |
|         | Control apparatus. Control stick           |
| 678     | General works                              |
| 678.5   | Fly-by-wire systems                        |
| 678.8   | Wing-warping                               |
|         | Fuselage                                   |
| 680     | General works                              |
| 681.A-Z | Special, A-Z                               |
| 681.A5  | Air conditioning                           |
| 681.C3  | Cabin                                      |
| 681.C6  | Cockpit                                    |
| 681.C7  | Cowling                                    |
| 681.F5  | Firewall                                   |
| 681.H4  | Heating                                    |
| 681.I6  | Instrument board                           |
|         | Instruments see TL589+                     |

|         |  |
|---------|--|
|         | Aeronautics. Aeronautical engineering      |
|         | Aircraft (General)                         |
|         | Heavier-than-air craft                     |
|         | Airplanes                                  |
|         | Details and parts                          |
|         | Fuselage                                   |
|         | Special, A-Z -- Continued                  |
| 681.L6  | Longerons                                  |
| 681.P7  | Pressurization                             |
| 681.S6  | Soundproofing                              |
| 681.W5  | Windshields                                |
| 681.5   | Nacelles                                   |
|         | Landing gear. Undercarriage                |
| 682     | General works                              |
| 683.A-Z | Special, A-Z                               |
| 683.A35 | Air cushion landing systems                |
| 683.A8  | Axles                                      |
| 683.B7  | Brakes                                     |
|         | Landing gear for use on snow see TL683.S6  |
| 683.R4  | Retractable landing gear                   |
| 683.S4  | Shock absorbers                            |
| 683.S5  | Skids. Wing and tail skids                 |
| 683.S6  | Skis. Landing gear for use on snow         |
| 683.T5  | Tires                                      |
| 683.W5  | Wheels                                     |
|         | Wing and tail skids see TL683.S5           |
| 683.5   | Hypersonic planes                          |
|         | Seaplanes                                  |
|         | Cf. TL711.S43 Seaplane flying              |
| 684     | General works                              |
| 684.1   | Amphibians                                 |
| 684.2   | Flying boats. Hulls                        |
| 684.3   | Floatplanes. Floats                        |
| 684.4   | Biplanes                                   |
| 684.5   | Triplanes                                  |
| 684.6   | Tailless airplanes                         |
| 684.8   | Flying automobiles                         |
| 685     | Convertiplanes. Vertically rising aircraft |
|         | Airplanes for special uses                 |
| 685.1   | Light (or sport). Private planes           |
|         | Cf. HE9795+ Economic aspects               |
|         | Cf. TL721.4 Private flying                 |
| 685.15  | Ultralight aircraft                        |
| 685.2   | Mailplanes                                 |

- Aeronautics. Aeronautical engineering
- Aircraft (General)
- Heavier-than-air craft
- Airplanes
- Airplanes for special uses -- Continued
- 685.3 Military planes
  - Class here works on the manufacture, testing, and restoration of military airplanes
  - For markings, procurement, and use in warfare see UG1240+
  - For drone aircraft guidance and control systems see TL589.4+
  - For military uses of drone aircraft see UG1242.D7
- Passenger planes
  - Cf. HE9787+ Passenger service
- 685.4 General works
- 685.5.A-Z Special equipment, etc., A-Z
- 685.5.I6 Interior decoration
- 685.5.R4 Restaurant
- 685.5.S4 Seats
- 685.5.S6 Sleeping accommodations
- 685.6 Racing planes
- 685.7 Transport planes. Cargo planes
  - Cf. HE9761+ Air transportation (Economic aspects)
- 686.A-Z Special makes. By name of manufacturer, A-Z
  - e.g.
  - 686.A77 Auster aircraft
  - 686.B65 Boeing Aircraft Company
  - 686.B68 Bréguet
  - 686.D4 De Havilland Aircraft Company
  - 686.D65 Douglas Aircraft Company
  - 686.L6 Lockheed Aircraft Corporation
  - 686.R7 Rozhestvenskii
  - 686.S7 Stearman
- Airplane materials and accessories
- 688 General works
  - Special materials see TL699.A+
- Flying machines other than airplanes
  - see TL714+
- 689 Radioisotope technology and components
- Electrical systems and equipment
- 690 General works
- 690.5 Electromagnetic interference in aeronautics
- 691.A-Z Special, A-Z
- 691.A95 Auxiliary power supply

|         |   |
|---------|---|
|         | Aeronautics. Aeronautical engineering                     |
|         | Electrical systems and equipment                          |
|         | Special, A-Z -- Continued                                 |
| 691.B3  | Batteries   |
| 691.G4  | Generators  |
| 691.L3  | Landing lights  |
| 691.M3  | Magnetic recorders  |
| 691.N3  | Navigation lights   |
|         | Radio see TL693+  |
|         | Radio see TL695+  |
| 691.S4  | Searchlights  |
| 691.W5  | Wiring  |
|         | Communication methods and equipment                       |
| 692     | General special   |
|         | Including signaling, etc.                                 |
|         | Electronic methods and equipment. Telegraph. Radio.       |
|         | Radar. Television   |
| 693     | General works   |
| 694.A-Z | Special, A-Z  |
| 694.A6  | Antennas  |
|         | Bonding see TL694.I6                                      |
| 694.C6  | Cipher and telegraph codes                                |
| 694.I4  | Identification  |
|         | Including IFF (Identification - Friend or Foe)            |
| 694.I5  | Inspection  |
| 694.I6  | Interference. Bonding. Shielding                          |
| 694.R4  | Receiving   |
|         | Shielding see TL694.I6                                    |
| 694.T35 | Telemetry   |
| 694.T4  | Teletype  |
| 694.T7  | Transmitting  |
|         | Electronic aids to navigation. Radio. Radar. Television   |
| 695     | General works   |
| 695.5   | Directories of radio stations                             |
| 696.A-Z | Special, A-Z  |
|         | Altimeter see TL696.H4                                    |
| 696.A77 | Artificial satellites                                     |
| 696.B4  | Beacons   |
| 696.B5  | Beacon receiver   |
| 696.C6  | Collision prevention                                      |
| 696.C7  | Radio compass   |
| 696.C75 | Control tower display systems                             |
| 696.C8  | Course computers. Course-line computers, etc.             |
| 696.D5  | Direction finders   |
| 696.D6  | Distance indicator  |
| 696.D65 | Distance measuring equipment (Aircraft to ground station) |

- Aeronautics. Aeronautical engineering
- Communication methods and equipment
- Electronic aids to navigation. Radio. Radar. Television
- Special, A-Z -- Continued
  - Field and runway localizer see TL696.L3
  - Glide path systems see TL696.L33
  - Ground-speed indicator
  - Height indicator. Altimeter
  - Inspection
  - Landing aids
  - Instrument landing systems
    - Including ground controlled approach, etc.
    - Cf. TL711.B6 Blind flying
    - Cf. TL711.L3 Landing
  - Loran
  - Markers
  - Omnirange system
  - Radar
  - Radar air traffic control systems
  - Range
  - Tacan
- Miscellaneous equipment and apparatus
- General works
- Special, A-Z
  - Air ducts
  - Bearings
  - Clothing for pilots
    - Cf. TL697.G6 Goggles
    - Cf. TL697.P7 Pressure suits
  - Compressors
  - Fasteners
  - Fire prevention
    - Cf. TH9445.A5 Fire hazards of hangars
  - Goggles
  - Heat pipes
  - Helmets
  - Hydraulic equipment
  - Ice prevention see TL557.I3
  - Landing flares
  - Lasers
  - Military equipment (General and Army) see UG1240+
  - Military equipment (Navy) see VG90+
  - Optical equipment
  - Oxygen equipment
  - Photographic equipment see TR1+
  - Pilot ejection seats
  - Pneumatic equipment

|         |                                       |
|---------|---------------------------------------|
|         | Aeronautics. Aeronautical engineering |
|         | Miscellaneous equipment and apparatus |
|         | Special, A-Z -- Continued             |
| 697.P7  | Pressure suits                        |
| 697.S3  | Safety devices (General)              |
|         | Cf. TL750+ Parachutes                 |
| 697.S8  | Stabilizing devices                   |
|         | Materials of construction             |
| 698     | General works                         |
| 699.A-Z | Special, A-Z                          |
| 699.A58 | Alloys                                |
| 699.A6  | Aluminum                              |
|         | Including alloys                      |
| 699.A8  | Asbestos                              |
| 699.C44 | Cellulose acetate                     |
| 699.C46 | Ceramic materials                     |
| 699.C57 | Composite materials                   |
| 699.C6  | Copper                                |
|         | Including alloys                      |
| 699.D6  | Dopes                                 |
| 699.D9  | Duralumin                             |
| 699.F2  | Fabrics                               |
| 699.F5  | Finishes                              |
| 699.G6  | Glue                                  |
| 699.G85 | Gums and resins, Synthetic            |
| 699.L23 | Laminated materials                   |
|         | Laminated wood see TL699.W7           |
| 699.L3  | Lautal                                |
| 699.M32 | Magnesium                             |
| 699.M4  | Metals                                |
| 699.P6  | Plastics                              |
|         | Plywood see TL699.W7                  |
| 699.P7  | Potting compounds                     |
|         | Resins, Synthetic see TL699.G85       |
| 699.R8  | Rubber                                |
| 699.S7  | Spruce                                |
| 699.S8  | Steel                                 |
|         | Including alloys                      |
|         | Timbers see TL699.W6                  |
| 699.T56 | Titanium                              |
| 699.T8  | Tubes                                 |
| 699.W5  | Wire                                  |
| 699.W6  | Wood. Timbers                         |
| 699.W7  | Wood, Laminated. Plywood              |
|         | Motors. Aircraft engines              |
| 701     | General works                         |
| 701.1   | General special                       |



|         |   |
|---------|---|
|         | Aeronautics. Aeronautical engineering   |
|         | Motors. Aircraft engines -- Continued   |
| 701.2   | Influence of altitude                   |
| 701.3   | Distributed propulsion                  |
| 701.4   | Installation                            |
| 701.5   | Maintenance and repair. Inspection      |
| 701.6   | Performance                             |
| 701.7   | Specifications. Standards               |
| 701.8   | Testing                                 |
|         | Details and parts                       |
| 701.9   | General                                 |
| 702.A-Z | Special, A-Z                            |
| 702.A37 | Actuators. Control systems              |
| 702.C3  | Carburetors                             |
| 702.C5  | Connecting rods                         |
|         | Cooling system see TL702.R3             |
| 702.C6  | Cowlings                                |
| 702.C7  | Crankshafts                             |
| 702.C9  | Cylinders                               |
| 702.F8  | Fuel feeding and tanks                  |
| 702.G4  | Gearing                                 |
| 702.I5  | Ignition devices. Magnetos              |
| 702.L8  | Lubrication                             |
|         | Magnetos see TL702.I5                   |
| 702.M8  | Mufflers                                |
| 702.O55 | Oil filters                             |
|         | Opening and closing system see TL702.V3 |
| 702.P5  | Pistons                                 |
| 702.R3  | Radiators. Cooling system               |
| 702.S7  | Starting devices                        |
| 702.S8  | Superchargers                           |
| 702.V3  | Valves. Opening and closing system      |
| 703.A-Z | Special makes, A-Z                      |
|         | e.g.                                    |
| 703.D4  | De Havilland                            |
| 703.H5  | Hispano-Suiza                           |
|         | Engines other than gasoline             |
| 704     | General works                           |
| 704.1   | Atomic engines                          |
| 704.2   | Diesel engines                          |
| 704.4   | Steam engines for aircraft              |
| 704.6   | Model engines                           |
| 704.7   | Fuel for aircraft engines               |
|         | Cf. TL711.J4 Jettisoning of fuel        |
|         | Cf. TL711.R4 Refueling                  |
|         | Propellers. Airscrews                   |
| 705     | General works                           |

- Aeronautics. Aeronautical engineering
- Propellers. Airscrews -- Continued
- 706.A-Z Special, A-Z
- 706.A2 Abrasion
- 706.B3 Balancing. Flutter
- 706.E8 Etching
- Flutter see TL706.B3
- 706.I6 Interference
- 706.N6 Noise
- 706.P4 Performance. Performance calculation
- 706.P8 Pusher vs. tractor
- 706.S4 Slip
- 706.S5 Slip stream
- 706.S6 Specifications. Standards
- Standards see TL706.S6
- 706.S7 Strains and stresses
- 706.T4 Testing
- 706.T5 Thrust
- 706.V4 Vibration
- 707.A-Z Details and parts, A-Z
- 707.B6 Blade section and form
- 707.B7 Boss
- 707.G4 Gear
- 707.H8 Hub
- 707.P5 Pitch, Adjustable and controllable
- 707.S6 Spinner
- 707.T5 Tipping
- Nuclear power plants. Nuclear propulsion for aircraft
- Cf. TL704.1 Atomic engines, propeller engine systems
- Cf. TL783.5 Nuclear rockets, propulsion systems
- 708.A1 Periodicals, societies, etc.
- 708.A2-Z General works
- 708.3.A-Z By region or country, A-Z
- Jet propulsion. Jet engines
- For rocket propulsion see TL780+
- 709 General works
- 709.3.A-Z Special types, A-Z
- 709.3.R3 Ramjet engines
- 709.3.S37 Scramjet engines
- 709.3.T8 Turbine-propeller engines
- 709.3.T82 Turbofan engines
- 709.3.T83 Turbojet engines
- 709.5.A-Z Details and parts of jet engines, A-Z
- Air intakes or inlets see TL709.5.I5
- 709.5.B4 Bearings
- 709.5.B6 Blades
- 709.5.C55 Combustion chambers

## Aeronautics. Aeronautical engineering

## Jet propulsion. Jet engines

## Details and parts of jet engines, A-Z -- Continued

- 709.5.C56 Compressors
- 709.5.C57 Control systems
- 709.5.C6 Cooling systems
- 709.5.D5 Diffusers
- 709.5.F8 Fuel systems
- 709.5.H42 Heating regenerators
- 709.5.I5 Intakes or inlets for air
- 709.5.N68 Nozzles
- 709.5.S8 Roller bearings see TL709.5.B4
- 709.5.S8 Starting devices
- 709.5.T5 Supersonic intakes or inlets see TL709.5.I5
- 709.5.T87 Thrust reversers
- 709.5.T87 Turbines

## Operation of airplanes. Flying

- 710 General works
  - Including textbooks and instruction books
- 711.A-Z Special, A-Z
  - Aerobatics see TL711.S8
  - 711.A5 Airspeed
  - 711.A6 Altitude flying
    - Cf. TL555 Physical and mental requirements for pilots
  - 711.A7 Special altitude flights
    - Arrange by date
  - 711.B6 Blind flight. Instrument flying
  - 711.B88 Bush flying
  - 711.C64 Cold weather operation
  - 711.D4 Cross-country flying see TL711.L7
  - 711.D5 Dispatching
  - 711.D7 Ditching
  - 711.E57 Dropping of cargo
  - 711.E6 Emergency maneuvers
  - 711.E6 Endurance flights
  - 711.F47 Ferrying
  - 711.H65 Formation flying, Military see UG632.2+
  - 711.H65 Holding patterns
  - 711.I47 Intercepting other aircraft
  - 711.J38 Instrument flying see TL711.B6
  - 711.J38 Jet flying
  - 711.J4 Jettisoning of fuel
  - 711.L3 Landing
    - Cf. TL696.L3 Radio
  - 711.L6 Loading
  - 711.L7 Long distance flying. Cross-country flying
  - 711.M68 Mountain flying

- Aeronautics. Aeronautical engineering
- Operation of airplanes. Flying
  - Special, A-Z -- Continued
  - Multiengine flying see TL711.T85
  - 711.N5 Night flying
  - 711.O26 Ocean flying. Overwater flying
  - Overwater flying see TL711.O26
  - 711.R4 Refueling
  - 711.S43 Seaplane flying
  - 711.S5 Single heading
  - 711.S8 Stunt flying. Aerobatics
  - 711.T28 Taildragger flying
  - 711.T3 Takeoff
  - 711.T85 Twin-engine flying. Multiengine flying
- Flight training
  - 712 General works
  - 712.5 Flight simulators and trainers
  - 712.8 Computer flight games
    - For war games see U310+
    - Cf. GV1469.15+ Computer games
    - Cf. TL1088 Space flight computer simulation
- 713.A-Z Flying schools. By place, A-Z
- 713.5 Flying clubs
- Flying machines other than airplanes
  - Including experimental models, but not toy models
  - For drone aircraft guidance and control systems see TL589.4+
- 713.7 Lifting bodies
- Rotor aircraft
  - 714 General works
  - 715 Autogiros
  - Helicopters
    - Cf. TL685 Convertiplanes. Vertical takeoff and landing aircraft
    - Cf. UG1230+ Military helicopters
- 716.A1 Periodicals, societies, etc.
- 716.A2-Z General works
- 716.2 Juvenile works
- 716.5 Operation of helicopters
- 716.9.A-Z Special makes. By name of manufacturer, A-Z
- 717 Ornithopters. Winged flight
- 717.5 Personal propulsion units. Rocket belts. Jet belts
- 718 Other
- Special uses of airplanes
  - Civil aviation (Technology) see TL552
  - Transportation (Technology)
    - For economic aspects see HE9761+

- Aeronautics. Aeronautical engineering
- Special uses of airplanes
- Transportation (Technology) -- Continued
- 720 General works
- 721.A-Z Special flights, A-Z
  - For collected flights over an individual country see TL521+
  - For collected flights overseas see TL531
  - Cf. TL539+ Biography
- 721.B3 Balbo
- 721.B5 Blériot
- 721.B7 Bremen
- 721.B83 Buck
- 721.C5 Chichester
- 721.C6 Cobham
- 721.C65 Costes
- 721.E3 Earhart
- Gatty and Post see TL721.P6
- 721.K5 Kingsford-Smith
- Lindbergh see TL540.L5
- McIntosh and Parer see TL721.P27
- 721.M35 McMillan-Kidby
- 721.M443 Miranda and Tejada
- 721.P27 Parer and McIntosh
- 721.P6 Post and Gatty
- 721.R54 Rodgers
- Rutan and Yeager see G445
- 721.S63 Smith, Dick
- 721.U58 U.S. Army Round-the-rim flight
- 721.U6 U.S. Army world flight
- Yeager see TL551.5
- 721.1 Exploration. Mountain climbing
  - For special localities see TL521+
  - Cf. G599 Aircraft for polar exploration
- (721.2) Surveying and mapping
  - see TA593
- (721.3) Aerial photography
  - see TR810
- 721.4 Private flying
  - For sports flying see GV758+
- Air meets
- 721.5 General works
  - Races see GV759+
- 721.6.A-Z Special meets, A-Z
- Use of airplanes in various industries
- 722 General works

## Aeronautics. Aeronautical engineering

## Special uses of airplanes

## Use of airplanes in various industries -- Continued

(722.1)

Agriculture

see S494.5.A3

722.2

Fisheries and whaling

(722.3)

Forestry, fire patrol

see SD387.A3

722.4

Mining. Prospecting

722.5

Use of airplanes for advertising

Including flying exhibits, flying signboards, voice of the air,  
skywriting, and distribution of literature

722.8

Use of airplanes for humanitarian purposes. Lifesaving at  
sea

Cf. RA996.5+ Aeronautics and medicine

Cf. TL553.8 Search and rescue

723

Government uses of airplanes

For airmail (general) see HE6238

For airmail (U.S.) see HE6496

For war see VG90+

## Airplane industry (Technical aspects)

Including management

Cf. TL671.28 Manufacturing. Factory equipment and  
methods

724

General works

For trade directories see TL512+

724.5.A-Z

Special companies, A-Z

## Airways (Routes). Airports and landing fields. Aerodromes

Including air pilot guides

Cf. HE9797+ Air transportation

Cf. UG622+ Military aeronautics

Cf. VG90+ Naval aeronautics

725.A1

Periodicals, societies, etc.

725.A2-Z

General works

725.15

Juvenile works

725.2

Specifications

725.3.A-Z

Special topics, A-Z

725.3.A2

Access to airports

725.3.A59

Airport aprons

725.3.A6

Areas, Danger

725.3.B5

Bird control

For aircraft bird strikes see TL553.54

725.3.B8

Buildings

Cf. TL725.3.R4 Repair shops

725.3.C3

Camouflage

725.3.C6

Cold weather conditions

725.3.C63

Communication systems

Aeronautics. Aeronautical engineering  
Airways (Routes). Airports and landing fields. Aerodromes  
Special topics, A-Z -- Continued

725.3.C64 Control towers  
725.3.D35 Defense measures. War damage  
725.3.D4 Dispatching of airplanes  
Cf. TL725.3.T7 Traffic control

725.3.D7 Drainage  
725.3.E43 Electric equipment  
725.3.E6 Equipment  
Fire prevention and extinction see TH9445.A5  
Fog control see TL557.F6  
Free flight  
725.3.F73 Government operation and support  
725.3.G6 Intra-airport transportation  
725.3.I6 Landing aids  
725.3.L2 Cf. TL691.L3 Landing lights (Aircraft)  
Cf. TL696.C75 Control tower display systems  
(Electronic)  
Cf. TL696.L3 Landing aids (Electronic)  
Cf. TL725.3.L5 Lighting (Airports)  
Cf. TL725.3.T7 Air traffic control

725.3.L3 Landing fees  
725.3.L5 Lighting  
725.3.L6 Location  
725.3.M16 Maintenance and repair  
725.3.M2 Management  
725.3.M3 Marking  
Meteorology see TL556+  
725.3.M63 Models  
725.3.N6 Noise  
725.3.P3 Passenger accommodations  
725.3.P35 Pavements  
725.3.P5 Planning  
725.3.P55 Pneumatic equipment  
725.3.P67 Power plants  
725.3.P7 Private aircraft  
725.3.R3 Radiation safety  
725.3.R4 Repair shops  
725.3.R8 Runways  
725.3.S34 Safety measures  
725.3.S44 Security measures  
725.3.S47 Signs and signboards  
725.3.S5 Size  
725.3.S6 Soils

- Aeronautics. Aeronautical engineering  
 Airways (Routes). Airports and landing fields. Aerodromes  
 Special topics, A-Z -- Continued
- (725.3.T5) Time schedules, etc., for making timetables. Slot  
 allocation  
 see HE9797.4.S56
- 725.3.T7 Traffic control  
 Cf. TL696.C75 Control tower display systems  
 (Electronic)  
 Cf. TL696.R25 Radar air traffic control systems  
 War damage see TL725.3.D35
- 725.3.Z6 Zoning
- 725.5 Heliports  
 For special places see TL726+
- 725.6 Seaplane bases  
 For special places see TL726+
- 725.7 Floating airports  
 For special places see TL726+
- 725.8 Aircraft carriers  
 Cf. V874+ Vessels
- Special countries
- 726 General works
- 726.15 General special  
 Including Plymouth to Basra, and transpacific routes, etc.
- United States
- 726.2 General works
- 726.3.A-W States, A-W
- 726.4.A-Z Cities, A-Z
- Other countries
- America (except United States)
- 726.5.A1 General works
- 726.5.A2-Z Individual countries, A-Z  
 Subarrange each country by Table T4a
- Europe
- 726.6.A1 General works
- 726.6.A2-Z Individual countries, A-Z  
 Subarrange each country by Table T4a
- Asia
- 726.7.A1 General works
- 726.7.A2-Z Individual countries, A-Z  
 Subarrange each country by Table T4a
- Africa
- 726.8.A1 General works
- 726.8.A2-Z Individual countries, A-Z  
 Subarrange each country by Table T4a
- 726.85 Australia
- 726.87 New Zealand



- Aeronautics. Aeronautical engineering
  - Airways (Routes). Airports and landing fields. Aerodromes
  - Special countries
    - Other countries -- Continued
  - 726.9 Pacific islands
  - Beacons for aircraft
    - Cf. TL725.3.L5 Airport lighting
  - 727 General works
  - Radio beacons see TL696.B4
  - Hangars
    - 730 General works
      - Cf. TH9445.A5 Fire prevention
    - 730.1 General special
    - 730.2 For airships
    - 730.3 For airplanes
    - 731 Mooring masts
    - 732 Launching machinery. Catapults, etc.
    - 733 Apparatus for picking up and delivering goods, etc., during flight
  - Parachutes
    - Historical and early works, including parachutes used from balloons for exhibition and other purposes
    - For sport parachuting see GV769.5+
    - 750 General works
    - 751.A-Z Special jumpers, A-Z
    - Modern parachutes
      - 752 General works
      - 752.5 Juvenile works
      - 753 General special
      - 754.A-Z Special makes, A-Z
      - 755 Personal narratives
      - 758 Parachutes to carry airplanes
  - Kites
    - For sport and competitions see GV769
    - 759.A1 Periodicals, societies, etc.
    - 759.A6-Z General works
    - History
      - 759.3 General works
      - 759.4.A-Z By region or country, A-Z
      - 759.5 Juvenile works
      - 759.6.A-Z Special types of kites, A-Z
      - 759.6.F54 Fighter kites
      - 759.6.P3 Parakites
      - 759.7 Uses of kites (General)
        - Cf. QC879.3+ Meteorology
        - Cf. TR810 Photography from kites
  - Gliders. Gliding and soaring

- Aeronautics. Aeronautical engineering
  - Gliders. Gliding and soaring -- Continued
    - 760.A1 Periodicals, societies, etc.
    - General works
      - 760.A2 Early to 1903
      - 760.A3-Z 1903-
      - 760.4.A-Z By region or country, A-Z
      - 760.5 Air meets
      - 761 General special
      - 762 Design and construction
      - 765 Operation of gliders. Launching. Gliding. Soaring
      - 766 Equipment
      - 769 Human powered aircraft
  - Models
    - Including model airplanes for hobbyists
    - For experimental models prior to 1914 see TL670.5
    - Cf. GV760+ Flying and racing of model airplanes
- 770.A1 Periodicals, societies, etc.
- 770.A2-Z General works
- 772 Collectors and collecting
- Model testing see TL671.7
- Model rockets and space vehicles see TL844
- 774 Model gliders
- 775 Model airships
- 776 Model helicopters
- 777 Details and parts of models
  - Including propellers
- 778 Paper airplanes
- Rocket propulsion. Rockets
  - 780 Periodicals, societies, etc.
  - 780.5 Dictionaries and encyclopedias
  - History
    - 781 General works
    - 781.5.A-Z Special projects, A-Z
      - 781.5.B55 Blue Streak
      - 781.5.S3 Saturn
    - 781.8.A-Z By region or country, A-Z
  - Biography
    - 781.85.A1 Collective
    - 781.85.A3-Z Individual, A-Z
  - 782 General works
  - 782.5 Popular works. Juvenile works
  - 782.55 Pictorial works
  - 782.6 Handbooks, manuals, etc.
  - 782.7 Amateurs' manuals, etc.
  - 782.75 Addresses, essays, lectures
  - 782.8 Rocketry as a profession

Rocket propulsion. Rockets -- Continued  
 Model rockets see TL844  
 Special types of rockets and propulsion  
     Chemical rockets. Chemical propulsion systems  
 783                      General works  
 783.3                  Solid propellant rockets  
 783.4                  Liquid propellant rockets  
 783.45                Hybrid propellant rockets  
 783.5                  Nuclear rockets. Nuclear propulsion systems  
     Electric rockets. Electric propulsion systems  
 783.54                General works  
 783.57                Photon rockets. Photon propulsion systems  
 783.6                  Plasma rockets. Plasma propulsion systems  
 783.63                Ion rockets. Ion rocket propulsion  
 783.7                  Beamed-energy propulsion  
 783.8                  Hot water rockets. Hot water rocket propulsion  
 783.9                  Solar sails  
 784.A-Z              Special topics, A-Z  
 784.C6                Combustion  
 784.C63              Controls. Guidance systems  
 784.C65              Cooling  
 784.E4                Electronics  
 784.E86              Exhaust emissions  
 784.E9                Expansion joints  
 784.F8                Fuel systems  
 784.L3                Launching  
 784.N65              Nozzles  
 784.P9                Pyrotechnics  
 784.R4                Reliability  
 784.S7                Stability  
 784.S74              Staging  
 784.T4                Thrust  
 784.T5                Telemetry  
 Manufacturing. Factory methods  
 784.3                General works  
 784.5.A-Z            Special topics, A-Z  
 784.5.T4            Testing  
 784.5.W4            Welding  
 784.8                Materials  
 785                Fuel  
 Rockets for special uses, A-Z  
 785.8.L3            Launch vehicles  
 785.8.S6            Sounding rockets  
                     Cf. QC879.4+ Meteorology  
                     Spaceships see TL795+  
 Astronautics. Space travel  
     Cf. UG1500+ Military astronautics. Space warfare

- Astronautics. Space travel -- Continued
- 787 Periodicals, societies, etc.
- 787.5 Collected works (nonserial)
- 787.7 Abstracts
- 788 Dictionaries and encyclopedias
- 788.3 Directories
- 788.35 Patents
- 788.4 International cooperation
- History
- 788.5 General works
- 788.6 Space archaeology
- 788.7 Imaginary voyages
- Unidentified flying objects. Flying saucers
- Cf. BF2050+ Human-alien encounters
- Cf. BL65.U54 Religious aspects of unidentified flying objects
- Cf. CB156 Terrestrial evidence of interplanetary voyages
- 789.A1 Periodicals, societies, etc.
- 789.A2-Z General works
- 789.16 Dictionaries
- 789.2 Juvenile works
- 789.3 Personal narratives
- Including personal sightings
- By region or country
- United States
- 789.4 General works
- 789.5.A-Z By region or state, A-Z
- 789.6.A-Z Other regions or countries, A-Z
- 789.8.A-Z By country, region, etc., A-Z
- Under each country*
- .x *General works*
- .x2A-.x2Z *Special projects or programs, A-Z*
- e.g.
- United States
- 789.8.U5 General works
- 789.8.U6A-.U6Z Special projects or programs, A-Z
- 789.8.U6A5 Apollo
- 789.8.U6G4 Gemini
- 789.8.U6M3 Mariner
- 789.8.U6M4 Mercury
- 789.8.U6P56 Pioneer
- 789.8.U6R3 Ranger
- 789.8.U6S5 Skylab
- 789.8.U6S9 Surveyor
- 789.8.U6V64 Viking Mars Program
- 789.8.U6X5 X-15 program
- Biography

- Astronautics. Space travel
  - Biography -- Continued
    - 789.85.A1 Collective
    - 789.85.A3-Z Individual, A-Z
  - 790 General works
  - 791 Textbooks
  - 793 Popular works. Juvenile works
  - 793.5 Pictorial works
  - 793.7 Anecdotes, facetiae, etc.
  - 794 Handbooks, pocketbooks, tables, etc.
  - 794.3 Laboratory manuals. Amateur experiments
  - 794.5 Addresses, essays, lectures
  - 794.7 Civilian use of outer space. Space tourism
  - Space vehicles. Spaceships
    - For specific aspects see TL874+
  - 795 General works
  - 795.3 Space probes
  - 795.4 Microspacecraft
    - Reusable space vehicles. Space shuttles
  - 795.5 General works
  - 795.515 Juvenile works
  - 795.7 Space colonies. Space communities
  - Artificial satellites
    - Cf. TL1080 Artificial satellite orbits
  - 796.A1 Periodicals, societies, etc.
  - 796.A2-Z General works
  - 796.3 Juvenile works
  - Small satellites see TL795.4
  - 796.5.A-Z By country, region, etc., A-Z
    - Under each country:*
      - .x *General works*
      - .x2A-.x2Z *Special projects or programs, A-Z*
      - e.g.
      - For individual planets, etc. see TL796.6.A+
    - United States
      - 796.5.U5 General works
      - 796.5.U6A-.U6Z Special projects or programs, A-Z
        - e.g.
        - 796.5.U6V3 Vanguard
    - 796.6.A-Z By planet, etc., A-Z
      - 796.6.E2 Earth
      - 796.6.M66 Moon
      - 796.6.S8 Sun
    - 796.8 Observers' handbooks
    - Space stations
      - 797 General works
      - 797.15 Juvenile works

- Astronautics. Space travel
  - Artificial satellites -- Continued
    - 798.A-Z Special types by use, A-Z
    - 798.G4 Geodetic satellites
      - Cf. QB343 Artificial satellites in geodesy
    - 798.M4 Meteorological satellites
      - Cf. QC879.4+ Meteorology
    - 798.N3 Navigation satellites
      - Class here general works on navigation satellites, including the satellite component of the Global Positioning System. For special applications, see the subject, e. g. TA595.5, Satellite surveying; TL696.A77, Artificial satellites in air navigation; VK562, Artificial satellites in ship navigation
      - For general works on the Global Positioning System see G109.5
    - 798.S3 Scientific satellites
      - Cf. Q180.7 Astronautics in science
      - Cf. QB500.267+ Orbiting astronomical observatories
    - 798.T47 Telecommunication satellites see TK5104.2.A+
    - 798.T47 Tethered satellites
    - 799.A-Z Flights to special planets, etc. By planet, A-Z
      - Cf. QB600+ Planets
    - 799.J8 Jupiter
    - 799.M3 Mars
    - 799.M4 Mercury
    - 799.M6 Moon
    - 799.S86 Sun
    - 799.V45 Venus
  - 844 Model rockets. Model space vehicles
    - Study and teaching
      - Cf. TL1085 Space flight training
    - 845 General works
      - Audiovisual aids
        - 845.5.A-.Z8 General works
        - 845.5.Z9 Catalogs of audiovisual materials
      - United States
        - 846 General works
        - 847.A-Z Special schools, A-Z
        - 848.A-Z Other countries, A-Z
    - 849 Problems, exercises, etc.
    - Astronautics as a profession
      - 850 General works
      - Qualifications for astronauts
      - 855 General works

- Astronautics. Space travel
- Astronautics as a profession
  - Qualifications for astronauts -- Continued
- 856 Physical and mental requirements for astronauts
  - Including tests
  - For clinical aspects see RC1120+
- Research
- 858 General works
- Equipment. Laboratories
- 859 General works
- 860.A-Z Special, A-Z
- 862.A-Z Special institutions, A-Z
- 865 Technology transfer. Space spinoffs
- 867 Accidents and their prevention. Space safety
- 869 Specifications
- Systems engineering
- 870 General works
- 872 Estimates. Quantities. Costs
- 873 Manned space flight
- Specific aspects of space vehicles
- (874) General works
  - see TL795
- 875 Design and construction
- 885 Reliability
- 900 Thermodynamics. Heat engineering
- 901 Fires and fire prevention
- 910 Structural dynamics
- 915 Maintenance and repair
- 917 Lubrication
- 920 Testing
- 940 Expandable space structures
- 943 Planetary quarantine
- 945 Sterilization
- 946 Contamination
- Materials
- 950 Periodicals, societies, etc.
- 953 General works
- 954.A-Z Special, A-Z
  - Coatings see TL954.P35
- 954.M47 Metals. Metallurgy
- 954.P35 Paints and coatings
- Astrodynamics. Flight mechanics. Orbital mechanics
  - Cf. QB349+ Astronomy
- 1050 General works
- 1055 Relativistic effects in astrodynamics. Relativistic rocket mechanics and dynamics

- Astronautics. Space travel
  - Astrodynamics. Flight mechanics. Orbital mechanics --
  - Continued
- 1060 Atmospheric entry phenomena
  - Cf. TL3028 Reentry communications
- Space navigation
  - Cf. TL3250+ Navigation systems. Guidance systems
- 1065 General works
- 1070 Astronautical charts, tables, etc. Logbooks
- Space trajectories. Orbital transfer
- 1075 General works
- 1078 Data processing
  - Including computer programs
- 1080 Artificial satellite orbits
- 1082 Astronautical instruments
  - For instruments of special systems, see the system; e.g.
  - for navigation systems see TL3250+
- 1085 Space flight training
- 1088 Space flight computer simulation
  - Cf. TL712.8 Computer flight games
- Operation of space vehicles. Piloting
- 1090 General works
- 1095 Orbital rendezvous
- 1096 Extravehicular activity. Space walk
- Space mining see TN291.3+
- 1097 Space robotics
- Space vehicle propulsion systems see TL780+
- 1098 Space tools
- Electric equipment on space vehicles
- 1100 General works
- 1102.A-Z Special, A-Z
- 1102.B3 Batteries
- 1102.G4 Generators
- 1102.I57 Insulators
- 1102.N8 Nuclear electric powerplants
  - Including Project SNAP
  - Project SNAP see TL1102.N8
- 1102.T4 Thermoelectric devices
- 1102.W57 Wiring
- 1200 Optical equipment on space vehicles
- Environmental engineering in space. Space environment
- 1489 General works
- 1490 Radiation shielding on space vehicles
- 1492 Electrostatic charging
- 1495 Space simulators
- 1496 Flow of fluids. Fluid dynamics
- 1499 Space debris



|           |  |
|-----------|--|
|           | Astronautics. Space travel                               |
|           | Environmental engineering in space. Space environment -- |
|           | Continued  |
|           | Life support systems. Human engineering. Human           |
|           | environment equipment and testing                        |
| 1500      | General works  |
| 1530      | Cabin atmosphere   |
| 1550      | Space suits  |
| 1555      | Seats  |
| 1560      | Food   |
| 1565      | Water supply   |
|           | Test and training equipment                              |
| 1570      | General works  |
| 1572      | Space cabin simulators                                   |
| 1575      | Weightlessness simulators                                |
|           | Astrionics. Electronic equipment on space vehicles       |
| 3000.A1   | Periodicals, societies, etc.                             |
| 3000.A3-Z | General works  |
|           | Telecommunication, guidance and control systems for      |
|           | space vehicles   |
|           | Communication methods and equipment                      |
| 3025      | General works  |
| 3026      | Deep Space Network                                       |
| 3028      | Reentry communications. Plasma sheath effects            |
| 3035      | Radio  |
| 3040      | Television   |
|           | Navigation systems. Guidance systems                     |
| 3250      | General works  |
|           | Theory of navigation see TL1065+                         |
| 3252      | Inertial navigation systems                              |
| 3255      | Star trackers  |
| 3260      | Attitude control systems                                 |
| 3270      | Pointing systems   |
| 3280      | Command control systems                                  |
| 3285      | Space-based radar  |
|           | Ground support systems, operations and equipment         |
| 4000      | Periodicals, societies, etc.                             |
| 4015      | General works  |
|           | Launching bases. Launch complexes                        |
|           | Including launch facilities                              |
| 4020      | General works  |
| 4024      | Planning. Location                                       |
|           | By region or country                                     |
|           | United States  |
| 4026      | General works  |

- Astronautics. Space travel
- Ground support systems, operations and equipment
- Launching bases. Launch complexes
  - By region or country
  - United States -- Continued
- 4027.A-Z
  - By region or state, A-Z
  - Under each state:*
    - .x*                      *General works*
    - .x2A-.x2Z*            *Special bases. By name, A-Z*
- 4028.A-Z
  - Other regions or countries, A-Z
- 4030
  - Space tracking
  - Command control equipment
- 4040
  - General works
- 4045
  - Mobile facilities
- 4050
  - Ground transportation
- Extraterrestrial roving vehicles see TL475+

|         |  |
|---------|--|
|         | Mining engineering. Metallurgy   |
|         | Including mineral industries   |
|         | Periodicals and societies  |
|         | Arrange by language of publication                                     |
| 1.A1    | International or polyglot  |
| 1.A2-Z  | English  |
| 2       | French   |
| 3       | German   |
| 4       | Other languages (not A-Z)  |
| 5       | Congresses   |
|         | Exhibitions. Museums   |
| 6.A1    | General works  |
| 6.A2-Z  | By region or country, A-Z  |
|         | Subarrange each country by Table T4b                                   |
| 7       | Collected works (nonserial)  |
|         | Dictionaries and encyclopedias   |
| 9       | General works  |
| 10      | Polyglot dictionaries  |
| 12      | Directories  |
| (13)    | Yearbooks  |
|         | see TN1+   |
|         | History and description  |
| 15      | General works  |
| 16      | Ancient  |
| 17      | Medieval   |
|         | Modern   |
| 18      | To 1800  |
| 19      | 1800-  |
| 21-127  | Country divisions (Table T1a)  |
|         | Add country number in table to TN0                                     |
|         | Including government reports on mineral resources and economic geology |
|         | Biography  |
| 139     | Collective   |
| 140.A-Z | Individual, A-Z  |
|         | General works  |
| 144     | Early to 1800  |
| 145     | 1800-  |
| 146     | Elementary works   |
| 147     | Popular works  |
| 148     | Juvenile works   |
| 151     | Pocketbooks, tables, examinations, questions, etc.                     |
| 153     | General special  |
| 155     | Addresses, essays, lectures  |
| 160     | Mining engineering as a profession                                     |
|         | Study and teaching   |
| 165     | General works  |

## Study and teaching -- Continued

- America
  - 171 General works
  - United States
    - 173 General works
    - 174.A-W States, A-W
    - 175.A-Z Cities, A-Z
  - Canada
    - 176 General works
    - 177.A-Z Special provinces, A-Z
  - 179 Latin America (General)
  - Mexico
    - 180 General works
    - 181.A-Z Special divisions, A-Z
  - Central America
    - 182 General works
    - 183.A-Z Special countries, A-Z
  - West Indies
    - 185 General works
    - 186.A-Z Special islands, A-Z
  - South America
    - 188 General works
    - 189.A-Z Special countries, A-Z
  - Europe
    - 191 General works
    - 192.A-Z Special countries, A-Z
  - Asia
    - 194 General works
    - 195.A-Z Special countries, A-Z
  - Africa
    - 197 General works
    - 198 South Africa
    - 199.A-Z Other countries, A-Z
  - Australia
    - 201 General works
    - 202.A-Z Special states, A-Z
  - New Zealand
    - 203 Pacific islands
  - 204 General works
  - 205.A-Z Special islands, A-Z
- 207 Metallurgical research
- Special schools
  - United States
    - 210.A-Z General schools. By name of school, A-Z
    - 211 Correspondence schools
    - 213.A-Z Other countries. By place of school, A-Z

- (215-255) Mining laws and legislation
  - see class K
- (257) Patents
  - see class K
- 260 Economic or applied geology and mineralogy
  - For special countries see TN21+
- 263 Mineral deposits. Metallic ore deposits
  - For special countries see TN21+
  - For metallic ore deposits of particular metals see TN400+
  - For nonmetallic mineral deposits of particular minerals see TN799.5+
- 263.5 Energy minerals
  - Cf. TJ163.13+ Power resources
- 264 Marine mineral resources
  - For mining resources see TN291.5
- 265 Metallic ores (General)
- Geophysical surveying
- 269 General works
- Electric logging
- 269.5 General works
- 269.55 Induction logging
- 269.7 Radioactive prospecting
- Seismic prospecting
- 269.8 General works
- 269.83 Geometrical diffraction
- 269.84 Seismic reflection method
- 269.85 Seismic refraction method
- 269.86 Vertical seismic profiling
- 269.88 Vibroseis
- 269.883 Self-potential method
- 269.885 Water analysis. Sediment analysis
- Prospecting
  - Cf. TN560 Ore sampling
- 270.A1 Periodicals, societies, congresses, etc.
- 270.A2-Z General works
- 271.A-Z Special minerals, etc., A-Z
- 271.A2 Rare metals. Rare earths (General)
- 271.A47 Aggregates
- 271.B3 Bauxite
- 271.B4 Beryllium
- 271.B6 Boron
- 271.C47 Chlorite
- 271.C5 Chromium
- 271.C53 Clay
- 271.C58 Coal
- 271.C6 Copper
- 271.D5 Diamonds

## Prospecting

## Special minerals, etc., A-Z -- Continued

|         |                                       |
|---------|---------------------------------------|
| 271.F6  | Fluorspar (Fluorite)                  |
| 271.G6  | Gold                                  |
| 271.G7  | Graphite                              |
| 271.H43 | Heavy minerals                        |
| 271.I7  | Iron                                  |
| 271.K2  | Kaolin                                |
| 271.K55 | Kimberlite                            |
| 271.L4  | Lead                                  |
|         | Magnetite see TN271.I7                |
| 271.M3  | Manganese                             |
| 271.M4  | Mercury                               |
| 271.M5  | Mica                                  |
| 271.N5  | Nickel                                |
| 271.N63 | Nonmetallic minerals                  |
| 271.P27 | Peat                                  |
| 271.P3  | Pegmatites                            |
| 271.P4  | Petroleum                             |
| 271.P45 | Phosphates                            |
| 271.P56 | Platinum                              |
| 271.P6  | Potassium                             |
| 271.P9  | Pyrites                               |
| 271.Q4  | Quartz                                |
| 271.R33 | Radioactive minerals                  |
|         | Rare metals, rare earths see TN271.A2 |
| 271.S55 | Silver                                |
| 271.S88 | Sulfides                              |
| 271.S9  | Sulfur                                |
| 271.T3  | Tantalum                              |
| 271.T4  | Thorium                               |
| 271.T5  | Tin                                   |
| 271.T55 | Titanium                              |
| 271.T8  | Tungsten                              |
| 271.U7  | Uranium                               |
| 271.Z5  | Zinc                                  |

## Mine examination and valuation. Mine selling

|          |   |
|----------|---|
| 272      | General works   |
| 272.7    | Statistical methods. Kriging  |
| 273      | Mine surveying. Mine maps   |
|          | Construction of mine structures, buildings, etc. see TH4561                 |
| 274      | Mine organization and management  |
|          | For the organization and management of special types of<br>mines see TN400+ |
|          | Practical mining operations   |
| 275.A1   | Periodicals, societies, etc.  |
| 275.A2-Z | General works   |

## Practical mining operations -- Continued

- 276 Automation
- 277 Excavating and quarrying
- 278 Hydraulic mining
- 278.3 In situ processing (Mining)
  - Cf. TP759 Underground coal gasification
- 278.5 Solution mining
- 279 Drilling and blasting
  - For use of explosives in coal mines see TN803
- 281 Deep boring
- 281.5 Borehole mining
- 283 Shaft sinking
- 285 Tunneling, drifting
- 286 Longwall mining
- 287 Stopping
  - Ground control. Ground support
- 288 General works
- 289 Timbering
- 289.3 Mine roof bolting
- 289.5 Concrete mine supports
- 289.8 Pillaring
- 290 Mine filling
- 291 Open working. Strip mining
  - Cf. QH545.S84 Ecology
  - Cf. TD195.S75 Environmental technology
- Mining in extreme environments
- 291.24 General works
- 291.26 Cold weather conditions
  - Outer space. Space mining
- 291.3 General works
- 291.35 Lunar mining
- 291.5 Underwater mining. Ocean mining
  - Cf. TD195.O25 Environmental technology
- 292 General special
- 295 Safety measures
  - Cf. HD7269.A+ Labor hygiene
- 297 Rescue work, stations, first aid, etc.
- 300 Mine sanitation
- Ventilation of mines
- 301 General works
- 303 Ventilating appliances and machines
- 304 Stoppings
  - Gases in mines. Firedamp
    - Cf. TN844+ Coalbed methane
- 305 General works
- 306 Gases resulting from use of explosives
- Lighting of mines

- Lighting of mines -- Continued
- 306.5 General works
- 307 Miners' lamps. Safety lamps
- 309 Electric lighting of mines
  - Cf. TK4399.C6 Electric lighting of coal preparation plants
- Dangers and accidents in mines and quarries
  - Cf. TN802+ Coal mines and mining
- 311 General works
- 312 Mine dusts
- 313 Explosions
- 315 Fires
- 317 Falls of roof, etc.
- 318 Flooding
- 318.5 Spoil bank failures
- 319 Mine subsidences
- 319.5 Tailings dam failures
- 320 Machinery
- Mine drainage
- 321 General works
- 325 Mine pumps
- Mine transportation, haulage and hoisting
- 331 General works
- 332 Aerial tramways
  - Cf. TJ1386 General transportation
- 333 Underground roads
- 335 Mechanical haulage
- 336 Mine railroads, tracks, etc.
- 337 Electric mine locomotives and their use
- 338 Gasoline engines
- Hoists and elevators
- 339 General works
- 340.A-Z Special apparatus. By place, A-Z
- 341 Surface transportation
- 342 Mine and ore cars
- 343 Electrical engineering and equipment
  - For electric lighting of mines see TN309
- 344 Mine communication systems
- Mining machinery, tools, appliances, etc.
  - For coal mining machinery see TN813+
  - Cf. TN320 Mining accidents
- 345 General works
- 347 Catalogs
- 380.A-Z General mining and smelting companies, A-Z



# Ore deposits and mining of particular metals

Including mining and smelting companies

For extraction of particular metals from their ores, see TN703-TN799

For prospecting see TN270+

## Iron ore deposits and mining

400

General works

401

General special

402.A-Z

Individual ores, A-Z

Prefer classification by country

402.H4

Hematite

402.M3

Magnetite

402.S5

Siderite

402.T3

Taconite

## Special countries

America

403.A1

General works

United States

403.A5

General works

403.A6-.W

States, A-W

403.Z6A-.Z6Z

Special companies. By name, A-Z

404.A-Z

Other countries, A-Z

Subarrange each country by Table T4a

Europe

405.A1

General works

405.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

Asia

406.A1

General works

406.A4-Z

Special countries, A-Z

Subarrange each country, island, etc., by Table T4a

Africa

407.A1

General works

407.A4-Z

Special countries, A-Z

Subarrange each country, island, etc., by Table T4a

Australia, Oceania, etc.

408.A1

General works

408.A4-Z

Special countries or islands, A-Z

Subarrange each country or island by Table T4a

409.A-Z

Companies outside of United States. By name of company, A-Z

For special companies in the United States see  
TN403.Z6A+

## Gold and silver ore deposits and mining. Precious metals

410

General works

411

General special

Special countries

## Ore deposits and mining of particular metals

## Gold and silver ore deposits and mining. Precious metals

## Special countries -- Continued

## America

413.A1

General works

United States

413.A5

General works

413.A6-.W

States, A-W

413.Z6A-.Z6Z

Special companies. By name, A-Z

414.A-Z

Other countries, A-Z

Subarrange each country by Table T4a

## Europe

415.A1

General works

415.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Asia

416.A1

General works

416.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Africa

417.A1

General works

417.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

418.A1

General works

418.A4-Z

Special countries or islands, A-Z

Subarrange each country or island by Table T4a

419.A-Z

Companies outside of United States. By name of company, A-Z

For special companies in the United States see

TN413.Z6A+

## Gold ore deposits and mining

420

General works

421

Hydraulic and placer mining

422

Other methods

Including gold dredging

## Special countries

## America

423.A1

General works

United States

423.A5

General works

423.A6-.W

States, A-W

423.Z6A-.Z6Z

Special companies. By name, A-Z

424.A-Z

Other countries, A-Z

Subarrange each country by Table T4a

## Europe

425.A1

General works

Ore deposits and mining of particular metals  
 Gold and silver ore deposits and mining. Precious metals  
 Gold ore deposits and mining  
 Special countries  
 Europe -- Continued  
 425.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a  
 Asia  
 426.A1 General works  
 426.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a  
 Africa  
 427.A1 General works  
 427.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a  
 Australia, Oceania, etc.  
 428.A1 General works  
 428.A4-Z Special countries or islands, A-Z  
 Subarrange each country or island by Table T4a  
 429.A-Z Companies outside of United States. By name of  
 company, A-Z  
 For special companies, United States see  
 TN423.Z6A+

Silver ore deposits and mining  
 430 General works  
 431 General special  
 432.A-Z Individual ores, A-Z  
 Prefer classification by country  
 432.S7 Stephanite  
 Special countries  
 America  
 433.A1 General works  
 United States  
 433.A5 General works  
 433.A6-.W States, A-W  
 433.Z6A-.Z6Z Special companies. By name, A-Z  
 434.A-Z Other countries, A-Z  
 Subarrange each country by Table T4a  
 Europe  
 435.A1 General works  
 435.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a  
 Asia  
 436.A1 General works  
 436.A4-Z Special countries, A-Z  
 Subarrange each country by Table T4a  
 Africa

## Ore deposits and mining of particular metals

## Gold and silver ore deposits and mining. Precious metals

## Silver ore deposits and mining

## Special countries

## Africa -- Continued

437.A1

## General works

437.A4-Z

## Special countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

438.A1

## General works

438.A4-Z

## Special countries or islands, A-Z

Subarrange each country or island by Table T4a

439.A-Z

## Companies outside of United States. By name of company, A-Z

For special companies in the United States see

TN433.Z6A+

## Copper ore deposits and mining

440

## General works

441

## General special

442.A-Z

## Individual ores, A-Z

Prefer classification by country

442.C5

## Chalcopyrite

## Special countries

## America

443.A1

## General works

## United States

443.A5

## General works

443.A6-.W

## States, A-W

443.Z6A-.Z6Z

## Special companies. By name, A-Z

444.A-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Europe

445.A1

## General works

445.A4-Z

## Special countries, A-Z

Subarrange each country by Table T4a

## Asia

446.A1

## General works

446.A4-Z

## Special countries, A-Z

Subarrange each country by Table T4a

## Africa

447.A1

## General works

447.A4-Z

## Special countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

448.A1

## General works

448.A4-Z

## Special countries or islands, A-Z

Subarrange each country or island by Table T4a

## Ore deposits and mining of particular metals

## Copper ore deposits and mining

## Special countries -- Continued

- 449.A-Z Companies outside of United States. By name of company, A-Z  
For special companies in the United States see TN443.Z6A+

## Lead ore deposits and mining

- 450 General works  
451 General special  
452.A-Z Individual ores, A-Z  
Prefer classification by country

452.C4 Cerussite

452.G3 Galena

## Special countries

## America

- 453.A1 General works  
United States  
453.A5 General works  
453.A6-.W States, A-W  
453.Z6A-.Z6Z Special companies. By name, A-Z  
454.A-Z Other countries, A-Z  
Subarrange each country by Table T4a

## Europe

- 455.A1 General works  
455.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a

## Asia

- 456.A1 General works  
456.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a

## Africa

- 457.A1 General works  
457.A4-Z Special countries, A-Z  
Subarrange each country by Table T4a

## Australia, Oceania, etc.

- 458.A1 General works  
458.A4-Z Special countries or islands, A-Z  
Subarrange each country or island by Table T4a

- 459.A-Z Companies outside of United States. By name of company, A-Z  
For special companies in the United States see TN453.Z6A+

## Mercury ore deposits and mining

- 460 General works  
461 General special

## Ore deposits and mining of particular metals

## Mercury ore deposits and mining -- Continued

462.A-Z

Individual ores, A-Z

Prefer classification by country

462.C5

Cinnabar

## Special countries

## America

463.A1

General works

United States

463.A5

General works

463.A6-.W

States, A-W

463.Z6A-.Z6Z

Special companies. By name, A-Z

464.A-Z

Other countries, A-Z

Subarrange each country by Table T4a

## Europe

465.A1

General works

465.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Asia

466.A1

General works

466.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Africa

467.A1

General works

467.A4-Z

Special countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

468.A1

General works

468.A4-Z

Special countries or islands, A-Z

Subarrange each country by Table T4a

469.A-Z

Companies outside of United States. By name of company, A-Z

For special companies, United States see

TN463.Z6A+

## Tin ore deposits and mining

470

General works

471

General special

472.A-Z

Individual ores, A-Z

Prefer classification by country

472.C3

Cassiterite

## Special countries

## America

473.A1

General works

United States

473.A5

General works

473.A6-.W

States, A-W

473.Z6A-.Z6Z

Special companies. By name, A-Z

## Ore deposits and mining of particular metals

## Tin ore deposits and mining

## Special countries

## America -- Continued

474.A-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Europe

475.A1

## General works

475.A4-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Asia

476.A1

## General works

476.A4-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Africa

477.A1

## General works

477.A4-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Australia, Oceania, etc.

478.A1

## General works

478.A4-Z

## Special countries or islands, A-Z

Subarrange each country or island by Table T4a

479.A-Z

## Companies outside of United States. By name of company, A-Z

For special companies in the United States see

TN473.Z6A+

## Zinc ore deposits and mining

480

## General works

481

## General special

482.A-Z

## Individual ores, A-Z

Prefer classification by country

482.S6

## Sphalerite

## Special countries

## America

483.A1

## General works

## United States

483.A5

## General works

483.A6-.W

## States, A-W

483.Z6A-.Z6Z

## Special companies. By name, A-Z

484.A-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Europe

485.A1

## General works

485.A4-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Asia

486.A1

## General works

|          |   |
|----------|---|
|          | Ore deposits and mining of particular metals                |
|          | Zinc ore deposits and mining                                |
|          | Special countries   |
|          | Asia -- Continued   |
| 486.A4-Z | Other countries, A-Z  |
|          | Subarrange each country by Table T4a                        |
|          | Africa  |
| 487.A1   | General works   |
| 487.A4-Z | Other countries, A-Z  |
|          | Subarrange each country by Table T4a                        |
|          | Australia, Oceania, etc.                                    |
| 488.A1   | General works   |
| 488.A4-Z | Special countries or islands, A-Z                           |
|          | Subarrange each country or island by Table T4a              |
| 489.A-Z  | Companies outside of United States. By name of company, A-Z |
|          | For special companies, United States see TN483.Z6A+         |
| 490.A-Z  | Other metals, A-Z   |
|          | Class individual ores of particular metals with the metal   |
| 490.A2   | Rare metals. Rare earths (General)                          |
| 490.A3   | Radioactive minerals  |
| 490.A5   | Aluminum. Bauxite   |
| 490.A6   | Antimony  |
| 490.A8   | Arsenic   |
| 490.B2   | Barium  |
|          | Bauxite see TN490.A5  |
| 490.B4   | Beryllium   |
| 490.B6   | Bismuth   |
| 490.C2   | Cadmium   |
| 490.C4   | Chromium  |
| 490.C6   | Cobalt  |
| 490.G4   | Germanium   |
| 490.I6   | Indium  |
| 490.L5   | Lithium   |
| 490.M2   | Magnesium   |
| 490.M3   | Manganese   |
| 490.M7   | Molybdenum  |
| 490.N6   | Nickel  |
| 490.N65  | Niobium   |
| 490.P7   | Platinum and platinum group                                 |
| 490.R3   | Radium  |
|          | Rare earths and metals see TN490.A2                         |
| 490.R48  | Rhenium   |
| 490.R8   | Rubidium  |
| 490.S4   | Scandium  |
| 490.S8   | Strontium   |



## Ore deposits and mining of particular metals

## Other metals, A-Z -- Continued

490.T2 Tantalum  
 490.T5 Tellurium  
 490.T55 Thorium  
 490.T6 Titanium  
 490.T9 Tungsten (Wolfram)  
 490.U7 Uranium  
     Cf. TN490.A3 Radioactive minerals

490.V2 Vanadium

490.Z5 Zirconium

495.A-Z Metallic compounds, A-Z

495.S9 Sulfides

## Ore dressing and milling

For specific ores prefer classification by ore; see

TN538.A+

496 Periodicals. Societies. Serials

497 Congresses

500 General works

501 Addresses, essays, lectures

502 Dictionaries and encyclopedias

504 Plants and equipment

Milling machinery

    Cf. TJ1345 Mechanical engineering

505 General works

507 Trade catalogs

510 Crushing. Rolls, stamps, breakers

515 Screening and sorting. Screens, classifiers

Concentrating. Jigs, tables, vanners

520 General works

523 Flotation

525 Slime treatment

530 Magnetic separation

531 Dielectric separation

535 General special

    Including dewatering

538.A-Z Individual ores, A-Z

538.A55 Aluminum

538.A57 Antimony ores

538.C57 Chromium

538.C66 Copper

538.C9 Cyanite

538.G64 Gold

538.I7 Iron

538.M35 Manganese

538.N6 Nonferrous metals

538.P43 Phosphates

## Ore deposits and mining of particular metals

## Ore dressing and milling

## Individual ores, A-Z -- Continued

538.P53

Platinum

538.P6

Potassium

538.S84

Sulfides

538.T55

Tin

538.T57

Titanium

538.T74

Troilite

538.U7

Uranium

## Assaying

Cf. HG325+ Money

550

General works

555

General special

560

Sampling of ores

Cf. TN272+ Mine examination and valuation

565

Metallurgical analysis

Metallurgical and assay laboratories

570

General works

571.A-Z

Special laboratories. By place, A-Z

575

Assaying apparatus

580.A-Z

Assaying of special substances, A-Z

Including the analysis of ores

580.C5

Chromium

580.C64

Copper

580.G6

Gold and gold ores

580.H43

Heavy metals

580.I8

Iron and iron ores

580.M3

Manganese

580.M4

Mercury

580.N6

Nonferrous metals

580.P7

Platinum

580.P74

Precious metals

580.R48

Rhenium

580.S5

Silver

580.T5

Tin ores

580.T73

Trace elements

## Metallurgy

Cf. TA459+ Properties of metals

Cf. TS200+ Metal manufactures

600

Periodicals, societies, etc.

605

Congresses

607

Collected works (nonserial)

609

Dictionaries and encyclopedias

Communication of metallurgical information

610

General works

610.5

Metallurgical literature

## Metallurgy -- Continued

- 612 Directories
- History
- 615 General works
- 616 Ancient
- 617 Medieval
- 618 Modern
- 619 19th century
- 620 20th century
- Special countries
- 621 America
  - United States
- 623 General works
- 624.A-W States, A-W
  - Canada
- 626 General works
- 627.A-Z Special divisions, A-Z
- 629 Latin America (General)
  - Mexico
- 630 General works
- 631.A-Z Special divisions, A-Z
  - Central America
- 632 General works
- 633.A-Z Special countries, A-Z
  - West Indies
- 635 General works
- 636.A-Z Special islands, A-Z
  - South America
- 638 General works
- 639.A-Z Special countries, A-Z
  - Europe
- 641 General works
- 642.A-Z Special countries, A-Z
- 643 Eurasia
  - Asia
- 644 General works
- 645.A-Z Special countries, A-Z
  - Africa
- 647 General works
- 648 South Africa
- 649.A-Z Special countries, A-Z
  - Australia
- 651 General works
- 652.A-Z By state, A-Z
  - Pacific islands
- 654 General works
- 655.A-Z Special islands, A-Z

## Metallurgy -- Continued

Biography see TN139+

General works

664 Early to 1800

665 1800-

667 Popular works. Juvenile works

669 Laboratory manuals

671 Pocketbooks, tables, etc.

672 Heat treatment of metals

673 General special

675 Addresses, essays, lectures

675.3 Study and teaching

Cf. TN207 Metallurgical research

675.4 Information services

Metallurgical plants

675.5 General works

675.7 Management

Accidents and their prevention. Safety measures

Cf. HD7269.A+ Labor hygiene

676.A1 General works

676.A3 United States

676.A5-Z Other countries, A-Z

Special equipment

Metallurgical furnaces

677 General works

677.5 Refractory materials

678 Plasma jets

678.5 Reagents

Electrometallurgy

For applications to special metals, see the metal, e.g. TN706,

Iron and steel

Cf. TS670+ Electroplating

681 Periodicals, societies, etc.

683 Congresses

685 General works

686 General special

686.5.A-Z Special processes, A-Z

686.5.E4 Electroslag process

686.5.V3 Vacuum metallurgy

686.5.Z6 Zone melting

Cf. TP156.Z6 Chemical engineering

687 Special equipment

Including electric furnaces

Hydrometallurgy

688 General works

688.3.A-Z Special processes, A-Z

|           |   |
|-----------|---|
|           | Metallurgy                              |
|           | Hydrometallurgy                         |
|           | Special processes, A-Z -- Continued     |
| 688.3.B33 | Biotechnology                           |
|           | Including bacterial leaching            |
| 688.3.H4  | Heap leaching                           |
| 688.3.I65 | Ion exchange process                    |
| 688.5     | Pyrometallurgy                          |
|           | Metallography. Physical metallurgy      |
|           | Cf. QC176+ Solid state physics          |
|           | Cf. QD478 Solid state chemistry         |
|           | Cf. QD506+ Surface chemistry            |
|           | Cf. QD901+ Crystallography              |
|           | Cf. TA483+ General properties of alloys |
|           | Cf. TS650 Manufacture of alloys         |
| 689       | Periodicals, societies, etc.            |
| 689.2     | Congresses                              |
| 689.4     | Dictionaries and encyclopedias          |
| 690       | General works                           |
| 690.2     | Addresses, essays, lectures             |
| 690.4     | Handbooks, manuals, etc.                |
|           | Study and teaching                      |
| 690.6     | General works                           |
| 690.65    | Fieldwork                               |
| 690.7     | Metallographic specimens                |
| 693.A-Z   | Special metals, A-Z                     |
|           | Including alloys                        |
| 693.A4    | Alkali metals                           |
| 693.A5    | Aluminum                                |
| 693.A54   | Americium                               |
| 693.B4    | Beryllium                               |
| 693.B5    | Bismuth                                 |
| 693.B6    | Boron alloys                            |
| 693.C5    | Chromium                                |
| 693.C8    | Cobalt                                  |
| 693.C9    | Copper (Bronze)                         |
| 693.F7    | Friction metals                         |
| 693.G6    | Gold                                    |
| 693.H4    | Heat resistant metals                   |
| 693.I7    | Iron and steel                          |
| 693.L4    | Lead                                    |
|           | Light metals and alloys see TN693.N6    |
| 693.M3    | Magnesium                               |
| 693.M35   | Manganese                               |
| 693.M38   | Metallic composites                     |
| 693.M4    | Metallic glasses                        |
|           | Mischmetal see TN693.R3                 |

## Metallurgy

## Metallography. Physical metallurgy

## Special metals, A-Z -- Continued

- 693.M64 Molybdenum
- 693.N5 Nickel
- 693.N6 Nonferrous metals
- 693.P3 Palladium
- 693.P55 Platinum
- 693.P7 Precious metals
- 693.R3 Rare earth metal alloys
  - Including Mischmetal
- Refractory transition metal compounds see TN693.T7
- 693.R45 Rhenium
- 693.S5 Silver
- 693.S9 Superconductors
- 693.T34 Tantalum
- 693.T4 Tellurium
- 693.T45 Thorium
- 693.T5 Titanium
- 693.T7 Transition metal compounds
  - Including refractory transition metal compounds
- 693.T94 Tungsten
- 693.U7 Uranium
- 693.V3 Vanadium
- 693.Z5 Zirconium

## Powder metallurgy

Cf. TS245 Manufactures

- 695 General works
- 697.A-Z Special metals, A-Z
  - 697.A47 Aluminum
  - 697.C65 Copper
  - 697.H4 Heat resistant alloys
  - 697.I7 Iron and steel
  - 697.T5 Titanium
  - 697.Z54 Zinc
- 698 Mechanical alloying
- 700 Metallurgy of heat resistant alloys
- Metallurgy of ferrous metals
  - Iron and steel
    - Cf. TA464+ Properties
    - Cf. TS300+ Manufactures
  - Periodicals and societies see TS300
- 701.5 Congresses
- 702 Dictionaries and encyclopedias
- Directories see TS301
- 703 History

## Metallurgy

## Metallurgy of ferrous metals

## Iron and steel -- Continued

|         |  |
|---------|--|
| 704.A-Z | Special countries, A-Z                             |
|         | Subarrange each country by Table T4a               |
| 705     | General works                                      |
| 706     | Electric processes                                 |
| 706.5   | Pyrometallurgy                                     |
| 707     | General special                                    |
|         | Including slag                                     |
| 708     | Patents  |
| 709     | Alpha iron   |
|         | Cast iron. Pig iron                                |
| 710     | General works                                      |
|         | Blast furnaces                                     |
| 713     | General works                                      |
| 715     | Hot blast. Dry-air blast                           |
|         | Cf. TS231 Cupola furnaces                          |
| 718     | Utilization of waste heat, gas, etc.               |
| 719     | Malleable cast iron                                |
| 719.5   | Nodular iron                                       |
|         | Wrought iron                                       |
| 720     | General works                                      |
| 723     | Direct processes                                   |
| 725     | Refinery processes. Puddling and puddling furnaces |
| 727     | Sponge iron  |
|         | Steel  |
| 730     | General works                                      |
| 731     | General special                                    |
|         | Including temperature measurements                 |
| 732     | Popular works. Juvenile works                      |
|         | Special processes                                  |
| 733     | Direct processes                                   |
| 734     | Cementation processes                              |
| 735     | Crucible process                                   |
|         | Bessemer process                                   |
| 736     | General works                                      |
| 737     | Acid Bessemer process                              |
| 738     | Basic Bessemer process                             |
|         | Open hearth or Siemens process                     |
| 740     | General works                                      |
| 741     | Acid open hearth process                           |
| 742     | Basic open hearth process                          |
| 745     | Electric furnace processes                         |
| 746     | Ladle metallurgy                                   |
| 747     | Oxygen steelmaking                                 |
| 750     | Other processes. Continuous ingot casting, etc.    |

## Metallurgy

## Metallurgy of ferrous metals

## Iron and steel

## Steel -- Continued

## Heat treatment

751

## General works

752.A-Z

## Special processes, A-Z

752.A5

## Annealing

752.C3

## Case hardening. Nitriding

752.C5

## Chromizing

752.F4

## Flame hardening

752.I5

## Induction hardening

## Nitriding see TN752.C3

752.Q4

## Quenching

752.S8

## Surface hardening

752.T4

## Tempering

752.T54

## Thermomechanical treatment

755.A-Z

## Special plants and works, A-Z

## Iron and steel alloys

Class here production only

For properties, strength, etc. see TA464+

For microscopic examination see TN689+

756

## General works

757.A-Z

## Special alloys, A-Z

Aluminum see TN775

757.B6

## Boron steel

757.C35

## Calcium steel

757.C48

## Chrome-manganese steel

757.C49

## Chrome-nickel steel

757.C5

## Chrome steel. Stainless steel

757.F25

## Ferrochromium

757.F3

## Ferromanganese

757.F33

## Ferronickel

757.F4

## Ferrosilicon

757.M3

## Manganese steel

757.M7

## Molybdenum steel

757.N5

## Nickel steel

757.N6

## Nickel chromium alloys

757.N66

## Nitrogen

757.S45

## Semikilled steel

757.S7

## Spiegel iron

## Stainless steel see TN757.C5

757.T5

## Titanium steel

757.T9

## Tungsten steel

757.U7

## Uranium steel

757.V3

## Vanadium steel

## Metallurgy of nonferrous metals



## Metallurgy

## Metallurgy of nonferrous metals -- Continued

|           |                                  |
|-----------|----------------------------------|
| 758       | General works                    |
| 758.3     | Heat treatment                   |
| 758.4.A-Z | Individual plants and works, A-Z |
|           | Precious metals                  |
| 759       | General works                    |
|           | Gold and silver                  |
| 760       | General works                    |
| 761       | General special                  |
| 761.5     | Popular works                    |
| 761.6     | Juvenile works                   |
| 762       | Milling                          |
|           | Special processes                |
| 763       | Amalgamation                     |
| 765       | Chlorination                     |
| 767       | Cyanide process                  |
| 768       | Electric processes               |
| 769       | Other special processes          |
| 770       | Silver and lead                  |
|           | For lead alone see TN785         |
|           | Light metals                     |
| 773       | General works                    |
| 775       | Aluminum and its alloys          |
| 780       | Copper                           |
| 785       | Lead                             |
| 790       | Mercury                          |
| 793       | Tin                              |
| 796       | Zinc                             |
|           | Minor metals                     |
| 798       | Collectively                     |
| 799.A-Z   | Special metals, A-Z              |
| 799.A6    | Antimony                         |
| 799.B4    | Beryllium                        |
| 799.B5    | Bismuth                          |
| 799.C2    | Cadmium                          |
| 799.C25   | Calcium                          |
| 799.C4    | Cesium                           |
| 799.C5    | Chromium                         |
| 799.C6    | Cobalt                           |
| 799.G3    | Gallium                          |
| 799.G4    | Germanium                        |
| 799.I5    | Indium                           |
| 799.L57   | Lithium                          |
| 799.M2    | Magnesium                        |
| 799.M3    | Manganese                        |
| 799.M7    | Molybdenum                       |

## Metallurgy

## Metallurgy of nonferrous metals

## Minor metals

## Special metals, A-Z -- Continued

|         |                         |
|---------|-------------------------|
| 799.N47 | Neodymium               |
| 799.N5  | Neptunium               |
| 799.N6  | Nickel                  |
| 799.N7  | Niobium                 |
| 799.P34 | Palladium               |
| 799.P7  | Platinum                |
| 799.P74 | Plutonium               |
| 799.R37 | Rare earth metal alloys |
| 799.R45 | Rhenium                 |
| 799.R5  | Rhodium                 |
|         | Selenium see TN948.S4   |
| 799.T3  | Tantalum                |
| 799.T4  | Thorium                 |
| 799.T5  | Titanium                |
| 799.T9  | Tungsten                |
| 799.U7  | Uranium                 |
| 799.V3  | Vanadium                |
| 799.Z5  | Zirconium               |

## Nonmetallic minerals

Including deposits and associated mining industries

For prospecting see TN270+

799.5

## General works

## By region or country

## United States

799.6.A1

## General works

799.6.A2-Z

## By region or state, A-Z

799.7.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

## Coal

799.9

## Periodicals, societies, etc.

799.95

## Dictionaries and encyclopedias

800

## General works

801

## Elementary and popular works

## Mines and mining

For practical mining operations see TN275+

For safety measures see TN295

For ventilation see TN301+

For lighting see TN306.5+

802

## General works

803

## General special

Including use of explosives

## Special countries

Including geology of coal deposits in the region or country

## Nonmetallic minerals

## Coal

## Mines and mining

## Special countries -- Continued

## America

805.A1 Periodicals, societies, etc.

805.A2 General works

## United States

805.A3 Periodicals, societies, etc.

805.A4 Directories

805.A5 General works

805.A6-.W Individual states, A-W

805.Z6A-.Z6Z Individual companies. By name, A-Z

806.A-Z Other countries, A-Z

Subarrange each country by Table T4a

807.A-Z American companies outside of United States, A-Z

## Europe

808.A1 General works

808.A4-.Z5 Special countries, A-Z

Subarrange each country by Table T4a

808.Z6A-.Z6Z Special companies. By name, -Z

## Asia

809.A1 General works

809.A4-.Z5 Special countries, A-Z

Subarrange each country by Table T4a

809.Z6A-.Z6Z Special companies. By name, A-Z

## Africa

810.A1 General works

810.A4-.Z5 Special countries, A-Z

Subarrange each country by Table T4a

810.Z6A-.Z6Z Special companies. By name, A-Z

## Australia, Oceania, etc.

811.A1 General works

811.A4-.Z5 Special countries, A-Z

Subarrange each country by Table T4a

811.Z6A-.Z6Z Special companies. By name, A-Z

812 Arctic regions and Antarctica

Including Spitzbergen, Bear Island, etc.

## Coal mining machinery, etc.

813 General works

814 Catalogs

815 Coal-handling machinery for colliery purposes

For machinery for handling coal commercially see

TJ1405

## Coal preparation, washing, screening, etc.

816.A1 Periodicals, societies, etc.

816.A3-Z General works

## Nonmetallic minerals

## Coal -- Continued

- 817 Coal storage, weathering, etc.  
Underground gasification see TP759
- Anthracite
  - 820 General works
  - 823.A-Z Special countries, A-Z
- Bituminous coal
  - 825 General works
  - Special countries see TN805+
- 827 Cannel coal
- Subbituminous coal
  - 828 General works
  - 830.A-Z Special countries, A-Z
- Lignite. Brown coal
  - 831 General works
  - 834.A-Z Special countries, A-Z
- Peat
  - 837 General works
  - 840.A-Z Special countries, A-Z
  - 841 Peat machinery
  - 842 Peat straw, peat mull, etc.
- Coalbed methane
  - Cf. TN305+ Mine safety
  - Cf. TP761.M4 Gas industry
- 844 Periodicals, societies, etc.
- 844.5 General works
  - By region or country
    - United States
      - 844.6 General works
    - 844.62.A-Z By region or state, A-Z
    - 844.7.A-Z Other regions or countries, A-Z
- Other natural carbons and hydrocarbons
  - 845 Graphite
  - 847 Schungite
  - 850 Bitumen
  - 851 Sapropel
  - 853 Asphalt
    - Including uses
  - 857 Ozokerite, ceresin, natural paraffin
    - Cf. TP695 Chemical technology
  - Oil shales
    - Cf. TP699 Chemical technology
  - 858.A1 Periodicals, societies, etc.
  - 858.A2-Z General works
  - 859.A-Z Special countries, A-Z
    - Subarrange each country by Table T4a

## Nonmetallic minerals

## Other natural carbons and hydrocarbons -- Continued

## Petroleum. Petroleum engineering

Cf. HD9560+ Petroleum trade

Cf. TP690+ Refining, etc.

860 Periodicals, societies, etc.

(862) Yearbooks

see TN860

863 Congresses

864 Collected works (nonserial)

865 Dictionaries and encyclopedias

867 Directories

## Biography

869 Collective

869.2.A-Z Individual, A-Z

870 General works

870.3 Juvenile works

## Origin and composition. Petroleum geology

For petroleum geology of specific regions or countries

see TN872+

For analysis and testing see TP691

870.5 General works

870.515 Brines. Groundwater. Water chemistry

870.52 Capillarity

870.53 Mathematical modelling

870.54 Oil sands

870.55 Remote sensing

870.56 Rock mechanics

870.57 Traps. Reservoirs

## Prospecting see TN271.P4

871 General special

Including well testing, storage, diffusion, etc.

871.15 Addresses, essays, lectures

871.18 Reservoir oil pressure

## Well drilling

871.2 General works

871.215 Blowouts

871.22 Casing

871.23 Directional drilling

871.24 Formation damage

871.25 Horizontal well drilling

871.255 Hydraulic fracturing

Including hydraulic fracturing for natural gas

871.26 Managed pressure drilling

871.27 Muds. Fluids

871.3 Offshore well drilling

871.33 Underbalanced drilling

## Nonmetallic minerals

## Other natural carbons and hydrocarbons

## Petroleum. Petroleum engineering -- Continued

- 871.35 Well logging
- 871.37 Secondary recovery of oil
- 871.4 Mobile offshore structures
- 871.5 Petroleum and gas well supplies
  - Including catalogs
- Special countries
  - Including geology of petroleum deposits in the region or country
- America
  - 872.A2 General works
    - By region or country
    - United States
      - 872.A3-.A34 Periodicals, societies, congresses, etc.
      - Documents
      - 872.A35-.A44 Serials
      - 872.A45 Monographs
        - Arrange by date
      - Directories see TN867
    - 872.A5 General works
    - 872.A6-.W By state, A-W
    - 872.Z6A-.Z6Z Special companies. By name, A-Z
    - 873.A-Z Other regions or countries, A-Z
      - Subarrange each country by Table T4a
  - Europe
    - 874.A1 General works
    - 874.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - 875 Caspian, Baku, etc.
  - Asia
    - 876.A1 General works
    - 876.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Africa
    - 877.A1 General works
    - 877.A4-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Australia, Oceania, etc.
    - 878.A1 General works
    - 878.A6-Z Special countries or islands, A-Z
      - Subarrange each country or island by Table T4a
  - 878.2 Arctic regions
    - Including Greenland
  - 879 Oil companies outside of United States

## Nonmetallic minerals

## Other natural carbons and hydrocarbons

## Petroleum. Petroleum engineering -- Continued

## Petroleum pipelines

Cf. TH9445.P38 Fire prevention and extinction

879.5

## General works

879.52

## Control

879.53

## Design and construction

879.54

## Equipment and supplies

879.55

## Failure. Accidents. Leaks. Reliability

879.56

## Fluid dynamics

879.57

## Insulation. Heat transmission

879.58

## Maintenance and repair

879.59

## Safety measures

879.6

## Welding

## Natural gas

880.A1

## Periodicals, societies, etc.

880.A3-Z

## General works

880.2

## Gas well drilling

For hydraulic fracturing see TN871.255

880.5

## Natural gas pipelines

## Natural gas storage see TP756

## Underground natural gas storage see TP756.5

## United States

881.A1

## General works

881.A2-.W

## Special states, A-W

882.A-Z

## Other countries, A-Z

Subarrange each country by Table T4a

883

## Helium in natural gas

884

## Hydrates in natural gas

885

## Amber, fossil gums, etc.

890

## Sulfur

## Alkalies

Cf. TN919 Potassium salts

Cf. TP222+ Chemical technology

895

## General works

## United States

896.A1

## General works

896.A6-.W

## States, A-W

897.A-Z

## Other countries, A-Z

Subarrange each country by Table T4a

## Sodium salts. Soda deposits

899

## General works

## Salt

## Mining and manufacture

900

## General works

## By region or country

## Nonmetallic minerals

## Sodium salts. Soda deposits

## Salt

## Mining and manufacture

## By region or country -- Continued

## United States

902.A1

## General works

902.A2-.W

## By state, A-W

903.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

## Manufacture

905

## Sea water

907

## Saline springs

909

## Company prospectuses, etc.

## Sodium sulfate see TN948.S7

911

## Nitrates. Chile saltpeter

Cf. TP237+ Chemical technology

## Phosphates

913

## General works

914.A-Z

## Special countries, A-Z

Subarrange each country by Table T4a

917

## Borax and other borates

919

## Potassium salts. Potash-bearing rocks and plants. Kelp

Cf. TP245.P8 Chemical technology

## Mineral waters

Cf. GB1198+ Hot springs

Cf. RA794 Health resorts, spas, etc.

Cf. TP625 Artificial mineral waters

923

## General works

## United States

925

## General works

926.A-.W

## Special states, A-W

927.A-Z

## Other American countries, A-Z

Subarrange each country by Table T4a

## Europe

928.A1

## General works

928.A3-Z

## By country, island, or region, A-Z

Subarrange each country or island by Table T4a

## Asia

929.1.A1

## General works

929.1.A3-Z

## By country, island, or region, A-Z

Subarrange each country or island by Table T4a

## Africa

929.3.A1

## General works

929.3.A3-Z

## By country, island, or region, A-Z

Subarrange each country or island by Table T4a

## Australia



- Nonmetallic minerals
  - Mineral waters
    - Australia -- Continued
      - 929.5.A1 General works
      - 929.5.A3-Z Local, A-Z
    - New Zealand
      - 929.6.A1 General works
      - 929.6.A3-Z Local, A-Z
    - Pacific islands
      - 929.7.A1 General works
      - 929.7.A3-Z By country, island, or region, A-Z
        - Subarrange each country or island by Table T4a
  - 930 Asbestos
  - 933 Mica
  - 936 Abrasives. Emery, corundum, etc.
  - 939 Sand and gravel
  - Clay
    - Cf. TP785+ Ceramic industries
  - 941 General works
  - 942 United States
  - 943.A-Z Other countries, A-Z
    - Subarrange each country by Table T4a
  - Structural materials in general see TN950+
  - 945 Cement materials
  - 946 Gypsum
    - Cf. TP888 Plaster and other gypsum products
  - 948.A-Z Other specific nonmetallic minerals, A-Z
    - Including minerals from which metals are not normally extracted
    - 948.A5 Allanite
    - 948.A6 Alunite
    - 948.A65 Anhydrite
    - 948.A7 Apatite
    - 948.A76 Argillite
    - 948.B18 Barite
    - 948.B4 Bentonite
    - 948.B45 Beryl
    - Calcite see TN967
    - 948.C3 Carbonatites
    - 948.C34 Carnallite
    - 948.C5 Chalk. Whiting
    - 948.C55 Chiolite
    - 948.C6 Clinoptilolite
    - 948.C72 Conglomerate
    - 948.C73 Coprolites
    - 948.C75 Cordierite
    - (948.C8) Corundum
      - see TN936

## Nonmetallic minerals

## Other specific nonmetallic minerals, A-Z -- Continued

|         |                        |
|---------|------------------------|
| 948.C95 | Cyanite                |
| 948.D49 | Diaspore               |
| 948.D5  | Diatomaceous earth     |
| 948.D8  | Dumortierite           |
| 948.F3  | Feldspar               |
| 948.F45 | Fillers                |
| 948.F5  | Flint                  |
| 948.F6  | Fluorspar              |
| 948.F9  | Fullers' earth         |
|         | Garnet see TN997.G3    |
| 948.H3  | Halloysite             |
| 948.L3  | Laterite               |
| 948.L46 | Lime                   |
| 948.M2  | Magnesite              |
| 948.M3  | Marl                   |
| 948.M5  | Meerschaum             |
| 948.M7  | Monazite               |
| 948.M72 | Montmorillonite        |
|         | Mordenite see TN948.Z4 |
| 948.M8  | Mullite                |
| 948.M85 | Muscovite              |
| 948.N37 | Nepheline syenite      |
| 948.N4  | Nephelite (Nepheline)  |
| 948.O2  | Ocher                  |
| 948.P25 | Palygorskite           |
| 948.P38 | Pegmatites             |
| 948.P4  | Perlite                |
| 948.P5  | Pigments               |
| 948.P74 | Pumice                 |
| 948.P8  | Pyrite                 |
| 948.P82 | Pyrochlore             |
| 948.P85 | Pyrophyllite           |
| 948.Q3  | Quartz                 |
| 948.R45 | Rhodonite              |
| 948.S24 | Saprolites             |
| 948.S4  | Selenium               |
| 948.S45 | Serpentine             |
| 948.S5  | Shale                  |
|         | Cf. TN858+ Oil shales  |
| 948.S6  | Silica                 |
| 948.S63 | Sillimanite            |
| 948.S7  | Sodium sulfate         |
| 948.S9  | Syenite                |
| 948.T2  | Talc and soapstone     |
| 948.T74 | Tripoli                |

## Nonmetallic minerals

## Other specific nonmetallic minerals, A-Z -- Continued

948.T76

Trona

948.T9

Tysonite

948.V4

Vermiculite

Whiting see TN948.C5

948.W6

Wollastonite

948.Z4

Zeolites. Mordenite

## Building and ornamental stones

Cf. TA426+ General properties, testing, etc.

Cf. TA670+ Stonemasonry and stonecutting

950.A1

Periodicals, societies, etc.

950.A5-Z

General works

Special countries

America

951.A1

General works

United States

951.A5

General works

951.A6-.W

Special states, A-W

952.A-Z

Other American countries, A-Z

Europe

953.A1

General works

953.A3-Z

Special countries, A-Z

Asia

954.A1

General works

954.A3-Z

Special countries, A-Z

Africa

955.A1

General works

955.A3-Z

Special countries, A-Z

Australia. Oceania

956.A1

General works

956.A3-Z

Special countries, A-Z

## Special stones

957

Sandstone

958

Slate

Soapstone see TN948.T2

967

Limestone. Marble

970

Granite

973

Other building stones

Stones for roadmaking see TE200+

## Ornamental stones. Gems

980

General works

Special countries

America

981.A1

General works

United States

981.A5

General works

|           |  |
|-----------|--|
|           | Building and ornamental stones                   |
|           | Ornamental stones. Gems                          |
|           | Special countries                                |
|           | America  |
|           | United States -- Continued                       |
| 981.A6-.W | Special states, A-W                              |
| 982.A-Z   | Other American countries, A-Z                    |
|           | Europe   |
| 983.A1    | General works                                    |
| 983.A3-Z  | Special countries, A-Z                           |
|           | Asia   |
| 984.A1    | General works                                    |
| 984.A3-Z  | Special countries, A-Z                           |
|           | Africa   |
| 985.A1    | General works                                    |
| 985.A3-Z  | Special countries, A-Z                           |
|           | Australia. Oceania                               |
| 986.A1    | General works                                    |
| 986.A3-Z  | Special countries, A-Z                           |
| 989.A-Z   | Special ornamental stones (other than gems), A-Z |
| 989.A3    | Alabaster  |
| 989.B55   | Blue john  |
|           | Diamonds   |
| 990       | General works                                    |
|           | South Africa                                     |
| 991       | General works                                    |
| 992       | Company reports, etc.                            |
| 993       | United States                                    |
| 994.A-Z   | Other special countries, A-Z                     |
| 997.A-Z   | Other precious and semiprecious stones, A-Z      |
| 997.A35   | Agates   |
| 997.E5    | Emeralds   |
| 997.G3    | Garnets  |
| 997.J3    | Jade   |
| 997.M35   | Malachite  |
| 997.O7    | Opals  |
| 997.R83   | Rubies   |
| 997.S24   | Sapphires  |

- Chemical technology
  - Cf. HD9000+ Economics
- 1 Periodicals, societies, etc.
- 5 Congresses
- Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 12 Directories
- History
  - 15 General works
  - 16 Ancient
  - 17 Medieval
  - 18 Modern
  - 19 Nineteenth century
  - 20 Twentieth century
- 21-127 Country divisions (Table T1a)
  - Add country number in table to TP0
- 130.A-Z Special companies, A-Z
  - Including history, description, etc.
- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early to 1900
  - 145 1900-
- 146 Elementary works
- 147 Popular works
- Addresses, essays, lectures see TP185
- 149 General special
- 150.A-Z Special aspects of the subject as a whole, A-Z
- 150.A23 Accidents. Disasters
  - For works on accidents in specific places see TP21+
- 150.A88 Automation
  - Data processing see TP184
  - Disasters see TP150.A23
- 150.Q34 Quality control
- 150.S24 Safety measures
- 151 Tables, pocketbooks, etc.
  - Cf. T49 Technical receipts
- Chemical engineering
  - For chemical engineering aspects of atomic power see TK9350
- 155 General works
- 155.2.A-Z Special aspects of the subject as a whole, A-Z

## Chemical engineering

Special aspects of the subject as a whole, A-Z -- Continued

Data processing see TP184

155.2.E58

Environmental chemistry. Green chemistry

Green chemistry see TP155.2.E58

155.2.M34

Markov processes

155.2.M35

Mathematical models

155.2.M36

Mathematics

155.2.T43

Technological innovations

155.2.T45

Thermodynamics

## Chemical plants

Cf. TH4524 Building construction

155.5

General works

155.6

Management

## Chemical processes

155.7

General works

155.75

Chemical process control

Including nonlinear programming

Cf. TP184 Data processing

156.A-Z

## Special processes and operations, A-Z

156.A3

Absorption of gases

156.A33

Acoustics. Ultrasonics

156.A35

Adsorption

156.B7

Briquetting

156.C3

Carbonization

156.C35

Catalysis

156.C38

Cavitation

156.C5

Chromatography

156.C57

Coating processes

Cf. TA418.9.C57 Coatings

Cf. TS670+ Electroplating

Cf. TT300+ Industrial painting

156.C59

Compacting

156.C6

Condensation

156.C64

Controlled release technology

Cooling see TP363

156.C7

Crystallization

156.C8

Curing

Dehydration see TP363

156.D4

Dehydrogenation

156.D42

Demulsification

156.D43

Desulphuration

Cf. TD885.5.S85 Air pollution control

156.D45

Dialysis

156.D47

Diffusion

156.D5

Distillation

## Chemical engineering

## Special processes and operations, A-Z -- Continued

- (156.D7) Drying  
see TP363
- 156.E5 Electrostatic separation
- 156.E6 Emulsion
- 156.E65 Equilibrium
- 156.E68 Etching  
Including lithographic chemistry
- (156.E7) Evaporation  
see TP363
- 156.E8 Extraction
- 156.E98 Extrusion
- 156.F4 Fermentation, Industrial  
Cf. TP248.25.S64 Solid-state fermentation
- 156.F5 Filtration
- 156.F55 Flocculation
- Flow chemistry see TP156.F6
- 156.F6 Flow of liquids  
Including flow chemistry
- 156.F65 Fluidization
- 156.F66 Foam fractionation
- (156.G7) Grinding  
see TP156.S5
- Heating see TP363
- 156.H78 Hydrogen-ion concentration
- 156.H8 Hydrogenation
- 156.H82 Hydrolysis
- 156.H85 Hydroxylation
- 156.I6 Ion exchange
- 156.I7 Isotope separation
- Lithographic chemistry see TP156.E68
- 156.M26 Magnetic separation  
Cf. TN530 Ore dressing and milling
- 156.M3 Mass transfer
- 156.M45 Methanation
- 156.M5 Mixing
- 156.M65 Molding
- 156.N5 Nitration
- 156.N8 Nucleation
- 156.O7 Osmosis. Reverse osmosis
- 156.O9 Oxidation
- 156.P3 Particle technology
- 156.P4 Pelletizing
- 156.P5 Plasma
- 156.P6 Polymerization
- 156.P7 Precipitation

## Chemical engineering

## Special processes and operations, A-Z -- Continued

- 156.P75 Pressure processes
  - 156.P8 Pumping
  - 156.P83 Purification
  - 156.P9 Pyrolysis
  - 156.R35 Rectification
  - 156.R38 Recycle processes
  - 156.R4 Reduction
  - Reverse osmosis see TP156.O7
  - 156.R45 Rheology
  - 156.S3 Screening
  - 156.S32 Scrubber process
  - 156.S4 Sedimentation
  - 156.S45 Separation
    - Cf. TP156.M26 Magnetic separation
    - Cf. TP248.25.M46 Membrane separation (Biotechnology)
    - Cf. TP248.25.S47 Biotechnology
  - 156.S5 Size reduction. Grinding
  - 156.S55 Solidification
  - 156.S57 Sprouted bed processes
  - 156.S6 Spraying
  - 156.S8 Sterilization
  - 156.S9 Sublimation
  - 156.S95 Surface analysis
  - 156.T7 Transport processes
  - Ultrasonics see TP156.A33
  - 156.V3 Vacuum technology
  - 156.W4 Weighing and measuring
  - 156.W45 Wetting
  - 156.Z6 Zone melting
- Apparatus and supplies
- 157 General works
  - 158 Trade catalogs
  - 159.A-Z Special, A-Z
    - 159.A47 Antifoaming agents
    - 159.A5 Antioxidants
    - 159.A85 Atomizers
    - 159.A9 Autoclaves
    - 159.C3 Catalysts
    - 159.C4 Centrifuges
    - 159.C46 Chemical detectors
    - 159.C55 Coagulants
    - 159.C57 Compressors
    - 159.C6 Cooling towers
    - 159.D4 Densimeters



- Apparatus and supplies  
Special, A-Z -- Continued  
Detectors, Chemical see TP159.C46  
159.D5 Distillation apparatus  
159.D7 Drying agents  
159.E37 Electrochemical sensors  
159.E39 Electrodes  
159.E4 Electrolytic cells  
159.E85 Evaporators  
159.E9 Extractors  
159.F4 Feeders  
159.F47 Fillers  
159.F49 Fixed bed reactors  
159.F52 Flare gas systems  
159.F54 Flocculants  
159.F87 Furnaces  
159.H4 Heat transfer media  
159.L4 Leaching equipment  
159.M4 Membranes  
Cf. TP248.25.M46 Membrane separation  
(Biotechnology)  
159.M53 Microreactors  
159.M6 Molecular sieves  
159.N6 Nozzles  
159.O9 Oxidizing agents  
159.P3 Packed towers  
159.P5 Pipe  
159.P57 Plasma jets  
159.P6 Plate towers  
Pressure vessels see TS283  
159.P8 Pumping machinery  
159.S34 Scrubbers  
Sensors, Chemical see TP159.C46  
159.S4 Separators (Machine)  
159.S6 Sorbents  
159.S7 Steam-jacketed pans  
159.S73 Steaming apparatus  
159.V3 Vacuum tubes  
159.V34 Valves  
159.V52 Vibrators  
161 Laboratory manuals  
Study and teaching. Research  
165 General works  
168 Problems, exercises, etc.  
Country divisions  
America  
170 General works

- Study and teaching
- Country divisions
  - America -- Continued
    - United States
      - 171 General works
      - 172.A-W By state, A-W
      - 173 Canada
      - 174 Latin America. West Indies
      - 175 South America
      - 176 Europe
      - 177 Asia
      - 178 Africa
      - 179 Australia
      - 179.5 New Zealand
      - 180 Pacific islands
    - Special schools
      - 182 United States
      - 183.A-Z Other countries, A-Z
  - Data processing
    - 184 Cf. TP155.75 Chemical process control
  - 185 Addresses, essays, lectures
  - Chemical engineering as a profession
    - 186 General works
    - 186.5 Chemical technicians
  - Communication in chemical engineering
    - 186.7 General works
    - 186.8 Computer network resources
      - Including the Internet
  - Government and industrial laboratories, etc.
    - 187 General works
      - Including organization, etc.
    - Special countries
      - 190 United States
      - 191 Canada. British America
      - Other American countries
        - 192.A1 General works
        - 192.A2-Z By region or country, A-Z
      - Europe
        - 193.A1 General works
        - 193.A2-Z By region or country, A-Z
      - Asia
        - 194.A1 General works
        - 194.A2-Z By region or country, A-Z
      - Africa
        - 195.A1 General works
        - 195.A2-Z By region or country, A-Z
      - 196 Australia

- Government and industrial laboratories, etc.  
Special countries -- Continued
- 196.5 New Zealand  
197 Pacific islands
- Chemicals  
Class here manufacture, use, etc.  
For purification see TP156.P83
- 200 General works  
201 General special  
202 Catalogs, pricelists, etc.  
Cf. TK9401 Radioisotopes  
Directories see TP12
- 205.A-Z Special topics, A-Z  
205.S85 Storage  
210 Patents
- Special inorganic chemicals
- Acids
- 213 General works  
215 Sulfuric acid  
217.A-Z Other acids, A-Z  
For organic acids see TP248.A+
- 217.C5 Chromic  
217.H8 Hydrochloric  
217.H9 Hydrocyanic  
217.H94 Hydrofluoric  
217.N5 Nitric  
217.P4 Perchloric  
217.P5 Phosphoric
- Alkalies  
Cf. TN895+ Mineral industries
- 222 General works  
223 Ammonia and its compounds  
Other special see TP245.A+
- Salts
- 230 General works  
233 Chlorides  
Nitrates  
237 General works  
238 Saltpeter. Niter  
240 Sulfates and sulfites
- Gases
- 242 General works  
243 Compressed and liquefied gases  
Including cylinders
- 244.A-Z Special gases, A-Z  
For gaseous elements see TP245.A+  
Cf. TP750.2+ Gas industry

## Chemicals

## Special inorganic chemicals

## Gases

## Special gases, A-Z -- Continued

244.A3

Aerosols

244.C1

Carbon dioxide

244.G73

Greenhouse gases

244.R3

Rare gases

244.S83

Sulfur dioxide

245.A-Z

## Other inorganic chemicals. By principal elements, A-Z

Class here commercial products only

For pure chemistry see QD181.A+

245.A4

Aluminum

245.A6

Antimony

245.A7

Argon

245.A8

Arsenic

245.B2

Barium

245.B4

Beryllium

245.B5

Bismuth

245.B6

Boron

245.B7

Bromine

245.C2

Cadmium

245.C25

Caesium

245.C3

Calcium

245.C4

Carbon

245.C45

Cerium

245.C5

Chlorine

245.C6

Chromium

245.C7

Cobalt

245.C8

Copper

245.E6

Erbium

245.F6

Fluorine

245.G2

Gadolinium

245.G4

Gallium

245.G5

Germanium

245.G6

Gold

245.H4

Helium

245.H9

Hydrogen

245.I5

Indium

245.I6

Iodine

245.I7

Iridium

245.I8

Iron

245.K6

Krypton

245.L2

Lanthanum

245.L4

Lead

245.L5

Lithium

245.M2

Magnesium

## Chemicals

## Special inorganic chemicals

Other inorganic chemicals. By principal elements, A-Z --

Continued

|         |                        |
|---------|------------------------|
| 245.M3  | Manganese              |
| 245.M5  | Mercury                |
| 245.M7  | Molybdenum             |
| 245.N4  | Neodymium              |
| 245.N5  | Neon                   |
| 245.N6  | Nickel                 |
| 245.N7  | Niobium                |
| 245.N8  | Nitrogen               |
| 245.O7  | Osmium                 |
| 245.O9  | Oxygen. Ozone          |
| 245.P2  | Palladium              |
| 245.P5  | Phosphorus             |
| 245.P7  | Platinum               |
| 245.P8  | Potassium              |
| 245.P9  | Praseodymium           |
| 245.P94 | Promethium             |
| 245.P95 | Protoactinium          |
| 245.R2  | Radium                 |
| 245.S2  | Samarium               |
| 245.S3  | Scandium               |
| 245.S4  | Selenium               |
| 245.S5  | Silicon                |
|         | Silicones see TP248.S5 |
| 245.S6  | Silver                 |
| 245.S7  | Sodium                 |
| 245.S8  | Strontium              |
| 245.S9  | Sulfur                 |
| 245.T2  | Tantalum               |
| 245.T3  | Tellurium              |
| 245.T4  | Terbium                |
| 245.T5  | Thallium               |
| 245.T6  | Thorium                |
| 245.T7  | Thulium                |
| 245.T8  | Tin                    |
| 245.T85 | Titanium               |
| 245.T9  | Tungsten               |
| 245.U7  | Uranium                |
| 245.V2  | Vanadium               |
| 245.V5  | Victorium              |
| 245.X4  | Xenium                 |
| 245.Y8  | Ytterbium              |
| 245.Y9  | Yttrium                |
| 245.Z7  | Zinc                   |

## Chemicals

## Special inorganic chemicals

Other inorganic chemicals. By principal elements, A-Z --

Continued

245.Z8

Zirconium

## Organic chemicals and preparations

247.A1

Periodicals, societies, etc.

247.A2-Z

General works

247.2

Acids

247.5

Solvents

247.7

Plasticizers

248.A-Z

Special, A-Z

For chemical technology of specific drugs see

RS431.A+

248.A17

Acetates

248.A18

Acetic acid

Including wood vinegar

248.A2

Acetone

248.A28

Acridines

248.A4

Acrylic acid

248.A5

Alcohols

Cf. TP593 Fermentation industries

248.A53

Aldehydes. Ketones

248.A554

Alkenes (Olefins)

Cf. QD305.H7 Organic chemistry

248.A555

Allene

248.A56

Allyl compounds

248.A6

Amino acids

248.A62

Antibiotics

Antibodies, Monoclonal see TP248.65.M65

248.A7

Aromatic compounds

248.A8

Ascorbic acid

248.A9

Aziridines

248.B4

Benzene

248.B5

Benzoic acid

248.B55

Biomass chemicals

248.B57

Biosurfactants

248.B6

Boron organic compounds

248.B78

Butanediol

248.B8

Butanone

248.B87

Butylene

248.C15

Calcium gluconate

248.C2

Camphor

248.C24

Carbodiimides

248.C27

Carbohydrates

248.C3

Carbolic acid

248.C34

Carbon disulfide

## Chemicals

## Organic chemicals and preparations

## Special, A-Z -- Continued

|         |  |
|---------|--|
| 248.C38 | Carboxymethyl cellulose                |
| 248.C4  | Casein                                 |
| 248.C45 | Cellulose acetate                      |
| 248.C5  | Chloroform                             |
| 248.C6  | Citric acid                            |
| 248.C67 | Cresols                                |
| 248.C7  | Cresylic acid                          |
| 248.C9  | Cyanides                               |
| 248.C93 | Cyanocobalamine                        |
| 248.C94 | Cyclodextrins                          |
| 248.D5  | Diolefins                              |
| 248.E5  | Enzymes                                |
| 248.E62 | Esters                                 |
| 248.E65 | Ether                                  |
| 248.E68 | Ethylcellulose                         |
| 248.E72 | Ethylene                               |
| 248.F5  | Fluoro-organic compounds               |
| 248.F6  | Formaldehyde                           |
| 248.F63 | Formic acid                            |
| 248.F79 | Fungicides                             |
| 248.F8  | Furaldehyde                            |
| 248.G6  | Glucosides                             |
| 248.G65 | Glutamic acid                          |
|         | Glycerin see TP973                     |
| 248.H3  | Halogens                               |
| 248.H36 | Herbicides                             |
| 248.H4  | Hexachlorethane                        |
| 248.H43 | Hexone                                 |
| 248.H85 | Hydrazine                              |
| 248.H9  | Hydrocarbons                           |
|         | Cf. TP290.H9 Inflammable material      |
| 248.I57 | Insecticides                           |
| 248.I8  | Isocyanates                            |
| 248.I86 | Isoprene                               |
|         | Ketones see TP248.A53                  |
| 248.L27 | Lactams                                |
| 248.L3  | Lactic acid                            |
| 248.M4  | Menthol                                |
| 248.M43 | Metal carbonyls                        |
| 248.M45 | Metallo-organic compounds              |
| 248.M48 | Methyl sulfoxide                       |
|         | Monoclonal antibodies see TP248.65.M65 |
| 248.N7  | Nitrocellulose                         |
| 248.N8  | Nitrogen compounds                     |

## Chemicals

## Organic chemicals and preparations

## Special, A-Z -- Continued

|          |                                    |
|----------|------------------------------------|
| 248.N9   | Nucleotides                        |
| 248.O9   | Oxalic acid                        |
| 248.P4   | Pectin                             |
| 248.P44  | Pentosan                           |
| 248.P46  | Peroxides                          |
| 248.P47  | Pesticides                         |
| 248.P5   | Phenol products                    |
| 248.P55  | Phosphatides                       |
| 248.P6   | Phthalic acid                      |
| 248.P62  | Phthalocyanins                     |
| 248.P65  | Picric acid                        |
| 248.P67  | Polymethylbenzenes                 |
| 248.P675 | Polyphosphazenes                   |
| 248.P68  | Polysaccharides                    |
| 248.P73  | Proline                            |
| 248.P75  | Propylene                          |
| 248.P77  | Proteins                           |
| 248.P8   | Pyridine                           |
| (248.S3) | Saccharin<br>see TP424             |
| 248.S5   | Silicones                          |
| 248.S6   | Sorbitol                           |
| 248.S7   | Starch<br>Cf. TP415+ Food industry |
| 248.S76  | Stearates                          |
| 248.S8   | Stearic acid                       |
| 248.S9   | Sugar esters                       |
| 248.S93  | Sulfur organic compounds           |
| 248.T27  | Tartaric acid                      |
| 248.T3   | Tartrates                          |
| 248.T46  | Terephthalic acid                  |
| 248.T55  | Tocopherol                         |
| 248.T6   | Toluene                            |
| 248.T7   | Trichloroethylene                  |
| 248.U7   | Urea                               |
|          | Vinegar, Wood see TP248.A18        |
| (248.W6) | Wood alcohol<br>see TP594          |
|          | Wood vinegar see TP248.A18         |
| 248.X9   | Xyloles                            |
| 248.X95  | Xylose                             |



## Biotechnology

Cf. QR183.5 Immunotechnology  
Cf. RS380 Pharmaceutical biotechnology  
Cf. S494.5.B563 Agricultural biotechnology  
Cf. TD192.5+ Environmental biotechnology

- 248.13 Periodicals. Societies. Serials
- 248.14 Congresses
- 248.15 Collected works (nonserial)
- 248.16 Dictionaries and encyclopedias
- 248.162 Symbols, formulas, abbreviations
- 248.17 Directories
- 248.175 Patents
- 248.18 History
- By region or country
  - United States
    - 248.185 General works
    - 248.19.A-Z By region or state, A-Z
    - 248.195.A-Z Other regions or countries, A-Z
  - 248.2 General works
  - 248.215 Popular works
  - 248.218 Juvenile works
  - 248.22 Study and teaching
  - 248.23 Social aspects
- Processes, operations, and techniques
  - 248.24 General works
  - 248.25.A-Z Special, A-Z
    - 248.25.A96 Automation. Computer simulation. Data processing
    - 248.25.B53 Bilayer lipid membranes
    - 248.25.B54 BioMEMS
    - 248.25.B55 Bioreactor processes
    - 248.25.C37 Capillary electrophoresis
    - 248.25.C42 Cell adhesion
    - 248.25.C44 Cell culture
    - Computer simulation see TP248.25.A96
    - Control see TP248.25.M65
  - 248.25.C79 Cryopreservation
  - Data processing see TP248.25.A96
  - 248.25.E88 Extraction
  - 248.25.F55 Flocculation
  - 248.25.F57 Flow cytometry
  - 248.25.G7 Granulation
  - 248.25.H54 High performance liquid chromatography
  - 248.25.H56 High pressure
  - 248.25.I55 Immobilized cell processes
  - 248.25.L85 Luminescence
  - 248.25.M34 Magnetic separation
  - 248.25.M38 Mass spectrometry

## Biotechnology

## Processes, operations, and techniques

## Special, A-Z -- Continued

- 248.25.M39 Mathematical models
- 248.25.M43 Measurement
- 248.25.M45 Membrane reactors
- 248.25.M46 Membrane separation
- 248.25.M58 Mixed culture
- Molecular communication see TK5103.57
- 248.25.M65 Monitoring. Control
- 248.25.N35 Nanotechnology
- 248.25.N42 Near infrared spectroscopy
- 248.25.P44 Pervaporation
- 248.25.P53 Phase partition
- Pressure, High see TP248.25.H56

- 248.25.S47 Separation
- 248.25.S64 Solid-state fermentation

## Special biotechnologies, A-Z

- 248.27.A-Z
- 248.27.A46 Algal biotechnology
- 248.27.A53 Animal cell biotechnology
- 248.27.F86 Fungal biotechnology
- 248.27.I56 Insect cell biotechnology
- 248.27.M37 Marine biotechnology
- 248.27.M47 Methylophilic microorganisms
- 248.27.M53 Microbial biotechnology
- Cf. TN688.3.B33 Hydrometallurgy

- 248.27.P55 Plant biotechnology
- Cf. SB106.B56 Crops

- 248.27.P75 Protozoan biotechnology

- 248.27.Y43 Yeast biotechnology

- 248.3 Biochemical engineering. Bioprocess engineering

For industrial applications of specific biomolecules or  
classes of biomolecules see TP248.A+

Cf. TP156.F4 Industrial fermentation

Cf. TP248.3 Hydrometallurgy

Cf. TP500+ Fermentation industries

- 248.6 Genetic engineering applications

Cf. QH442+ Genetic engineering (Biology)

Biotechnological production, modification, and applications of  
individual compounds or classes of compounds

- 248.65.A-Z Special, A-Z
- 248.65.A39 Allergens
- 248.65.A43 Amino acids
- 248.65.A45 Amylodextrins
- 248.65.A57 Antibiotics
- 248.65.B56 Blood products
- Carbohydrates see TP248.65.P64

## Biotechnology

Biotechnological production, modification, and applications of individual compounds or classes of compounds

## Special, A-Z -- Continued

|            |   |
|------------|---|
| 248.65.C35 | Carbon compounds  |
| 248.65.C44 | Cellulase   |
| 248.65.C45 | Cellulose   |
| 248.65.C55 | Chitin  |
| 248.65.C58 | Citric acid   |
| 248.65.C92 | Cyclodextrins   |
| 248.65.E35 | Eggs  |
| 248.65.E59 | Enzymes   |
| 248.65.F44 | Feeds   |
| 248.65.F66 | Food  |
| 248.65.G49 | Glycoconjugates   |
| 248.65.H9  | Hydrogen  |
| 248.65.H93 | Hydrolases  |
| 248.65.I45 | Immobilized enzymes                                       |
| 248.65.I47 | Immobilized proteins                                      |
| 248.65.I49 | Immunoglobulins   |
| 248.65.L54 | Lignocellulose  |
| 248.65.L57 | Lipids  |
| 248.65.M37 | Materials   |
| 248.65.M53 | Microbial exopolysaccharides                              |
| 248.65.M54 | Microbial proteins  |
| 248.65.M65 | Monoclonal antibodies                                     |
| 248.65.O65 | Optical isomers   |
| 248.65.O73 | Organic compounds   |
| 248.65.P53 | Plant lipids  |
| 248.65.P58 | Polyethylene glycol                                       |
| 248.65.P62 | Polymers  |
| 248.65.P64 | Polysaccharides. Carbohydrates                            |
| 248.65.P76 | Proteins  |
| 248.65.S55 | Single cell lipids  |
| 248.65.S56 | Single cell proteins                                      |
| 248.65.V32 | Vaccines  |
| 248.65.V57 | Vitamins  |
| 249        | Industrial radiochemistry. Industrial radiation chemistry |
| 249.5      | Industrial photochemistry                                 |
|            | Industrial electrochemistry                               |
|            | Cf. QD115+ Electrochemical analysis                       |
|            | Cf. QD273 Electrochemistry of organic compounds           |
|            | Cf. QD551+ Chemistry                                      |
|            | Cf. TK4661 Electric furnaces                              |
| 250        | Periodicals, societies, etc.                              |
| 251        | Directories   |
| 252        | History   |

- Industrial electrochemistry -- Continued
- 253.A-Z Special countries, A-Z
- 255 General works
- 256 General special
- 257 Addresses, essays, lectures
- 258 Study and teaching
- Special applications
- 259 Electrolysis of water
- Electroplating see TS670+
- Electrotyping see Z252
- Metallurgical processes (General) see TN681+
- Other special, A-Z
- 261.A-Z
- 261.A1 Alloys
- 261.B7 Brine
- Calcium carbide see TP770
- 261.C3 Carborundum
- 261.C5 Chlorates
- 261.C67 Corundum
- 261.G7 Graphite
- 261.H9 Hydrogen
- 261.N7 Nitrogen
- 261.O9 Oxygen
- 261.P48 Phosphorus
- Water in chemical industry
- 262 General works
- 263 Water softening
- Cf. TD466 Municipal water supply
- Cf. TJ379 Feedwater purification
- Chemistry of fire and fire prevention
- Cf. QD516 Heat of formation, combustion, flame, explosion
- Cf. TH9446.3+ Flammability of materials
- 265 General works
- 266 Fire extinguishing agents
- Cf. TH9338 Chemical systems of fire extinction
- 266.5 Fireproofing agents
- 267 Fireproofing of fabrics
- Explosives and pyrotechnics
- 267.5 General works
- 268 History
- Special topics see TP272+
- 268.5.A-Z Biography, A-Z
- e.g.
- 268.5.N7 Nobel
- 269 Early works to 1800
- Explosives
- Cf. UF860+ Military explosives and pyrotechnics
- 270.A1 Periodicals, societies, etc.

## Explosives and pyrotechnics

## Explosives -- Continued

- 270.A2 Dictionaries and encyclopedias
- 270.A3-Z General works
- 270.5 Popular works. Juvenile works
- 271 Study, testing, etc.
- Special explosives
- 272 Gunpowder
- 273 Smokeless powder
- 276 Nitrocellulose compounds. Guncotton
- 285 Nitroglycerine compounds. Dynamite
- 290.A-Z Other, A-Z
- 290.A5 Ammonium nitrate fuel oil
- 290.B7 Bobbinite
- 290.C7 Compensating powder
- 290.C8 Cordite
- Cyclonite see TP290.R39
- 290.C9 Cyclotetramethylene-tetranitramine
- 290.H9 Hydrocarbons
  - Cf. TP248.H9 Organic preparations
- 290.L5 Liquid air or oxygen
- 290.L8 Lyddite. Melanite
- 290.N53 Nitrogen compounds
- 290.P5 Peroxides
- 290.R39 RDX (Cyclonite)
- 290.T8 Trinitrotoluene (TNT)
- 290.V5 Vigorit
- 291 Additives
- 293 Fuses, caps, fulminates, etc.
- 295 Storage and handling. Powder magazines. Thaw houses
- 297.A-Z Regulation, inspection, etc. By country, A-Z
- (299) Laws relating to explosives
  - see class K
- Pyrotechnics
- 300 General works
- 301 Catalogs of fireworks, etc.
- 310 Matches
- Fuel
  - Cf. TH7201+ Heating of buildings
  - Cf. TJ163.13+ Power resources
- 315 Periodicals, societies, congresses, etc.
- 316 Dictionaries and encyclopedias
- 317.A-Z Special countries, A-Z
- 318 General works
- 318.3 Juvenile works

## Fuel -- Continued

- 319 General special  
Including fuel for motor transport  
Cf. TP343+ Liquid and gaseous fuel
- 320 Minor works, pamphlets, etc.
- 320.5 Tables, calculations, etc.  
Analysis. Testing  
Cf. TP691 Oil inspection, analysis, testing, standards,  
etc.  
Cf. TP754 Analysis, tests, etc. in the gas industry
- 321 General works
- 322 Fuel testing plants
- 323 Briquets and briquetting (General)  
For special kinds see the subject  
Cf. TP327 Coal briquets  
Cf. TP340 Peat
- 324 Wood  
Coal  
Cf. TP352 Coal liquefaction
- 325 General works
- 326.A-Z By region or country, A-Z
- 327 Coal briquets
- 328 Pulverized coal
- 329 Lignite
- 331 Charcoal
- 336 Coke. Carbonization of coal
- 339 Biomass  
Cf. TP324 Wood
- 340 Peat  
Liquid and gaseous fuel  
Cf. TL704.7 Fuel for aircraft engines  
Cf. TP750.2+ Gas industry
- 343 General works  
Gas
- 345.A1 Periodicals, societies, congresses, etc.
- 345.A2-Z General works
- 350 Natural gas  
Cf. TP359.M4 Methane
- 352 Coal liquefaction
- 355 Petroleum  
Including synthetic petroleum
- 358 Alcohol and alcohol mixtures. Ethanol. Gasohol
- 359.A-Z Other special, A-Z
- 359.B4 Benzene (Benzol)
- 359.B46 Biodiesel fuels
- 359.B48 Biogas
- 359.C63 Coconut oil

- Fuel
  - Liquid and gaseous fuel
    - Other special, A-Z -- Continued
    - Diesel fuels, Oxygenated see TP359.O98
  - Hydrogen
  - Kerosene as fuel
  - Liquefied petroleum gas
  - Methane
  - Oxygenated diesel fuels
  - Vegetable oils
- Other
  - Including colloidal fuel, mud fuel, artificial fuel
- Inflammable liquids and gases
  - Including production, storage, handling and transportation
  - Cf. TH9446.I475 Fire prevention
  - Cf. TH9446.I5 Fire prevention
- Antifreeze solutions
- Heating, drying, cooling, evaporating
  - Cf. TP159.D7 Drying agents
  - Cf. TP159.H4 Heat transfer media
- By-products of combustion
- Food processing and manufacture
  - For beverages see TP500+
  - Cf. TX341+ Nutrition
  - Cf. TX641.2+ Cooking
- Periodicals. Societies. Congresses
- Dictionaries and encyclopedias
- Directories
- Catalogs
- Patents
- History
- By region or country, A-Z
- Biography
  - Collective
  - Individual, A-Z
- General works
- Popular works
- Juvenile works
- Handbooks, tables, etc.
- General special
- Addresses, essays, lectures
- Study and teaching
- Research
- Special aspects, A-Z
  - Automation see TP372.8
- Color of food
- Mathematical models

- Food processing and manufacture
- Special aspects, A-Z -- Continued
- 370.9.T73 Transport theory
- Special processes
  - For biotechnology applied to food processing see TP248.65.F66
  - For processing of a special food see TP375+
- 371 General works
- 371.15 Aeration
- Preservation techniques
  - For home preservation see TX599+
- 371.2 General works
- Canning
  - 371.3 General works
  - 371.35 Sterilization of canned foods
- Chemical preservation
  - 371.4 General works
  - By use of additives
    - 371.42 General works
    - 371.44 Brining, pickling, fermenting, etc.
    - 371.46 Carbon dioxide treatment
      - Including Dense phase carbon dioxide pasteurization
- Drying. Dehydration
  - 371.5 General works
  - 371.6 Freeze-drying
  - 371.65 Solar drying
  - 371.66 Spray drying
  - 371.7 Electric fields
  - 371.75 High pressure
  - 371.8 Irradiation
  - Low temperature
    - 372 General works
    - 372.2 Cold storage
    - 372.3 Freezing
    - 372.4 Ultrasound
- Chemistry testing. Quality control
  - Cf. TX501+ Nutrition
- 372.5 General works
- 372.55.A-Z Special reactions, A-Z
- 372.55.E59 Enzymatic browning
- 372.55.M35 Maillard reaction
- 372.6 Standards
- 372.7 Production control
- 372.8 Automation
- 373 Food processing plants and equipment
  - Cf. TH4526 Building construction
- 373.2 Transportation



## Food processing and manufacture -- Continued

- 373.3 Storage
  - Including food storage pests
  - Cf. SB937 Farm insect pests
- 373.5 Safety measures
- 373.6 Sanitation
- 373.8 By-products
- Packaging
- 374 General works
- 374.5 Labeling
- Special foods
  - Sugars and syrups (General). Cane sugar. Sucrose
  - Periodicals. Societies. Congresses
  - Yearbooks
    - see TP375
  - 375.4 Dictionaries and encyclopedias
  - 375.5 Directories
  - 375.6 Patents
  - 375.7 History
  - 375.8.A-Z By region or country, A-Z
  - General works
    - 376 Early through 1800
    - 377 1801-
    - 378 Popular works
    - 378.2 Juvenile works
    - 379 Handbooks, tables, etc.
    - 380 General special
      - Including production control, automation
    - 381 Sugar-making machinery
    - 381.5 Special methods
    - 382 Analysis, testing. Saccharimetry
    - Special kinds of sugars and syrups
      - Beet
        - For periodicals see TP375
      - 390 General works
      - 391 General special
      - Cane see TP375+
      - 395 Maple
      - 405 Sorghum and corn
      - 413 Molasses
      - 414 Other special kinds of sugar
        - Including glucose, lactose, dextrose, date, Jerusalem artichoke, trehalose
      - Sugar products
        - 414.3 General works
        - 414.4 Caramel
        - Confectionery see TX780.2+

## Food processing and manufacture

## Special foods

Sugars and syrups (General). Cane sugar. Sucrose --

Continued

414.5

Sugar byproducts

For bagasse see TP996.B3

## Starches. Cornstarch

415

General works

416.A-Z

Special starches and starch products, A-Z

416.D4

Dextrin

416.S3

Sago

416.T3

Tapioca. Cassava

Fats and oils see TP669+

## Flavoring aids

418

General works

Essential oils see TP958+

419

Extracts

420

Spices, condiments

For soy sauce see TP438.S6

## Sweeteners

421

General works

Nonnutritive

422

General works

423

Cyclamates

424

Saccharin

425

Stevioside

426

Natural

For honey see SF539

For sugar see TP375+

428

Verjuice

Vinegar

429

General works

429.2

Balsamic vinegar

429.5

Rice vinegar

## Leavening agents and baking aids

431

General works

432

Baking powder. Cream of tartar

433

Yeast. Compressed yeast

## Cereals and cereal products

434

General works

Milling see TS2120+

435.A-Z

Special, A-Z

435.C4

Cereals, Prepared

435.C67

Corn products

Feeds see TS2284+

Flour see TS2120+

435.M3

Macaroni, spaghetti, etc. Pasta

## Food processing and manufacture

## Special foods

## Cereals and cereal products

## Special, A-Z -- Continued

435.O37

## Oat products

Including oat bran

435.R3

## Rice products

435.R83

## Rye products

435.S65

## Sorghum products

435.W48

## Wheat products

Bakery goods see TX761+

Confectionery see TX780.2+

## Seeds and seed products

Cf. TS2120+ Flours and other milled products

437

## General works

438.A-Z

## Special, A-Z

438.P4

## Peanuts. Peanut butter

438.S6

## Soybeans

Including tofu, miso, natto and soy sauce

## Nuts and nut products

439

## General works

439.5.A-Z

## Special nuts and products, A-Z

439.5.C45

## Chestnuts

439.5.C6

## Coconuts

439.5.H39

## Hazelnuts

Peanuts see TP438.P4

439.5.P42

## Pecans

## Fruit and fruit products

440

## General works

441.A-Z

## Special fruits and products, A-Z

441.A6

## Apples

441.B34

## Bananas

441.B4

## Berries

441.C45

## Cherries

441.C5

## Citrus products

441.J3

## Jam. Jelly (General)

441.M36

## Mangos

441.O4

## Olives

441.P4

## Peaches

441.P54

## Pineapple

441.P55

## Plums

441.P7

## Prunes

## Vegetables and vegetable products

443

## General works

444.A-Z

## Special vegetables and products, A-Z

444.A8

## Asparagus

444.B38

## Beans, Dried

## Food processing and manufacture

## Special foods

## Vegetables and vegetable products

## Special vegetables and products, A-Z -- Continued

444.B4 Beets  
444.C3 Cabbage  
444.C67 Corn  
444.C8 Cucumbers  
444.G37 Garlic  
444.K65 Konnyaku  
444.M8 Mushrooms  
444.O5 Onions  
444.P4 Peas  
444.P6 Potatoes  
444.S27 Sauerkraut  
444.S65 Spinach  
444.S94 Sweet potatoes  
444.T6 Tomatoes

## Algae and algae products

445 General works  
445.5.A-Z Special algae and products, A-Z  
445.5.A35 Agar  
445.5.A45 Algin  
445.5.C35 Carrageenan

## Animal foods

Butchers' meats see TS1950+  
Dairy foods see SF250.5+  
Eggs see SF490+  
Poultry see TS1968  
Seafood see SH334.9+

## Food substitutes

446 General works  
447.A-Z Special, A-Z  
447.F37 Fat substitutes  
Margarine see TP684.M3  
447.M4 Meat substitutes  
Sugar substitutes see TP422+

## Special food forms and foods for special purposes

450 General works  
451.A-Z Special, A-Z  
451.B38 Batters  
Beverages see TP500+  
Cereals, Prepared see TP435.C4  
451.C6 Convenience foods  
451.D53 Dietetic food  
451.E3 Edible coatings  
Gelatin see TP965

- Food processing and manufacture
  - Special foods
    - Special food forms and foods for special purposes
      - Special, A-Z -- Continued
      - 451.L67 Low-fat foods
      - 451.S57 Snack foods
      - 451.S67 Soups
    - 453.A-Z Special food constituents, A-Z
      - 453.C65 Colloids
      - 453.L43 Lecithin
      - 453.L56 Lipids
      - 453.P45 Phenols
      - 453.P64 Polysaccharides
      - 453.P7 Proteins
      - 453.V5 Vitamins
    - Food additives
      - Cf. TP371.42+ Chemical preservation by use of additives
      - Cf. TX553.A3 Nutrition
    - 455 General works
    - 456.A-Z Special additives, A-Z
      - 456.A2 Acids
      - 456.B32 Bacterial starter cultures
      - 456.C65 Colorants
      - 456.E58 Enzymes
      - 456.H93 Hydrocolloids
        - Cf. TP979.5.H93 Gums and resins
      - 456.K64 Koji
  - Low temperature engineering. Cryogenic engineering
    - Cf. TP243 Compressed and liquefied gases
    - Cf. TP363 Heating, drying, cooling, evaporating, etc.
  - 480 Periodicals, societies, congresses, etc.
  - 482 General works
  - Refrigeration and icemaking
    - 490 Periodicals, societies, congresses, etc.
    - 490.4 Dictionaries and encyclopedias
    - 490.5 Directories
    - General works
      - 491 Early to 1850
      - 492 1850-
        - 492.2 Juvenile literature
        - 492.3 Study and teaching
        - 492.5 Theory. Thermodynamics
        - 492.6 Domestic refrigeration
          - Cf. TP496+ Refrigerators
        - 492.7 Miscellaneous special topics
          - Cf. TP495+ Machinery

## Refrigeration and icemaking -- Continued

## Refrigerants

492.8

General works

492.82.A-Z

Special refrigerants, A-Z

492.82.D78

Dry ice

492.82.H93

Hydrocarbons

492.9

## Thermoelectric cooling

Cf. QC621+ Thermoelectricity. Thomson effect. Peltier effect

Cold storage of food see TP372.2

Freezing of food (Food processing industry) see TP372.3

Freezing of food (Home methods) see TX610

## History

494.A1

General works

494.A5-Z

Special countries, A-Z

## Machinery

Including catalogs

For refrigerators see TP496-497

495

General works

495.3.A-Z

Special parts and equipment, A-Z

495.3.T47

Thermostatic expansion valves

## Refrigerators

496

General works

Electric, gas, etc.

497.A1

Periodicals, societies, etc.

497.A2-Z

General works

498

## Ice cutting and storage

Cf. NA6360 Commercial icehouses

Cf. NA8350 Private icehouses

## Fermentation industries. Beverages. Alcohol

Cf. HD9350+ Economics

Cf. TP371.44 Preserving food by fermentation

500

Periodicals, societies, etc.

500.5

Directories

501

Congresses

## Exhibitions

502.A1

General works

502.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

503

Dictionaries and encyclopedias

## General works

504

Early to 1800

505

1800-

506

General special

507

Popular works

510

Handbooks, tables, etc.

511

Analysis. Testing

## Fermentation industries. Beverages. Alcohol -- Continued

- 515 Use of the microscope  
Cf. QR151+ Microorganisms of fermentation
- 517 Apparatus, instruments, tools, etc.  
Cf. TP659.A1+ Bottling supplies, containers, etc.
- History  
Cf. TP544+ Wines  
Cf. TP573.A1+ Brewing
- 520 General works
- 521 Ancient
- 522 Medieval
- 523 Modern
- America
- 526 General works  
United States
- 527 General works
- 528 Special states, A-W
- 529 Canada
- 530 West Indies
- 531 Mexico and Central America
- 532 South America
- 533.A-Z Europe, A-Z
- 534.A-Z Asia, A-Z
- 535.A-Z Africa, A-Z
- 536 Australia
- 536.5 New Zealand
- 537 Pacific islands
- Study and teaching
- 540 General works
- 543 Special schools  
Cf. TP574 Brewing and malting schools
- Wine and winemaking  
Cf. BM523.5.W5 Judaism
- 544 Periodicals, societies, congresses, etc.
- 546 Dictionaries and encyclopedias
- 546.5 Directories
- Biography
- 547.A1 Collective
- 547.A5-Z Individual, A-Z
- General works
- 547.5 Early to 1800
- 548 1800-
- 548.2 Amateurs' manuals
- 548.5.A-Z Special topics, A-Z
- 548.5.A38 Adulteration  
Including chaptalization
- 548.5.A5 Analysis, testing, etc.

## Fermentation industries. Beverages. Alcohol

## Wine and winemaking

## Special topics, A-Z -- Continued

- 548.5.A6 Apparatus and supplies
- 548.5.A93 Auctions
- 548.5.B9 By-products
- 548.5.C53 Clarification
- 548.5.C64 Color
- 548.5.F55 Flavor and odor
- 548.5.L32 Labels
- Microbiology see QR151+
- Odor see TP548.5.F55
- 548.5.P7 Preservatives
- 548.5.S35 Sanitation
- 548.5.S7 Sterilization
- 548.5.T68 Tourism
- 548.6.A-Z Special types, A-Z
  - For special types of wines by locality see TP553+
- 548.6.O74 Organic wines
- 548.6.P56 Pinot noir wines
- Rice wines see TP579
- 548.6.R67 Rosé wines
- 548.6.S65 Sparkling wines
- 549 History
- Special countries
  - France
    - 553 General works
    - 555 Champagne
  - United States
    - 557 General works
  - 557.5.A-W States, A-W
- 559.A-Z Other regions and countries, A-Z
- 560 Unfermented grape juice. Must
- 561 Fruit wines. Flower wines
- Fruit juices
  - Cf. TP636 Syrups
  - Cf. TP656+ Noncarbonated fruit beverages
- 562.A1 Periodicals. Societies. Serials
- 562.A2 Congresses
- 562.A3-Z General works
- 562.5.A-Z Special fruit juices, A-Z
  - 562.5.O73 Orange juice
- Cider
  - 563 General works
  - 564 Unfermented apple juice
  - 564.5 Perry



## Fermentation industries. Beverages. Alcohol -- Continued

- 565 Fermented milk  
Including kefir and kumiss
- Brewing and malting  
Cf. TH4531 Brewery design and construction
- 568 Dictionaries and encyclopedias
- General works
- 569 Early to 1800
- 570 1800-
- 572 Directories
- History
- 573.A1 General works
- 573.A3-Z Special countries, A-Z
- Biography
- 573.5.A1 Collective
- 573.5.A2-Z Individual, A-Z
- 574 Schools
- General special
- 577 Beer. Beer and ale
- 578 Ale. Porter
- 579 Rice beer. Rice wines  
Including saké and makkölli
- Yeast in brewing
- 580 General works
- 581 Pure-culture yeast
- 583 Water in brewing
- 585 Hops in brewing
- 587 Malting and malt
- 588.A-Z Other fermented beverages, A-Z
- 588.G8 Guarapo
- 588.K86 Kvass
- 588.M4 Mead
- 588.P8 Pulque
- Distilling
- General works
- 589 Early to 1800
- 590 1800-
- History
- 590.5 General works
- 590.6.A-Z Special regions or countries, A-Z
- Biography
- 591.A1 Collective
- 591.A2-Z Individual, A-Z
- 592 General special  
Including fermentation of molasses

## Fermentation industries. Beverages. Alcohol

## Distilling -- Continued

- 593 Alcohol (Ethanol)
  - Including denatured alcohol
  - Cf. HD9399 Economics
- 594 Wood alcohol (Methanol)
- Distilled liquors
  - Cf. HD9390+ Economics
- 597 General works
- 599 Brandy
- 605 Whiskey
- 607.A-Z Others, A-Z
  - 607.A27 Absinthe
  - 607.A57 Apple brandy
  - 607.A6 Aquavit
  - 607.G4 Gin
  - 607.K3 Kaoliang
  - 607.K57 Kirsch
  - 607.M46 Mescal
  - 607.R9 Rum
  - 607.S5 Shochu
  - 607.T46 Tequila
  - 607.V6 Vodka
- 609 Gaging and testing
  - Including tables
  - Cf. HF5716.L3+ Gaging of liquids in general
- 611 Liqueurs. Cordials
- 612 Compounding. Liquor-makers' receipts
- 617 Catalogs of liquors
- (618) Adulteration of liquors
  - see TX597
- Nonalcoholic beverages
- 620 General works
- 625 Artificial mineral waters
- Carbonated beverages. Soda water
  - 628 Periodicals, societies, etc.
  - 629 Directories
  - 630 General works
  - 635 Apparatus. Soda fountains
    - Including catalogs
  - 636 Syrups
- Chocolate, coffee, tea, etc.
  - Cf. TX583+ Adulterations
- 638 General works
- 640 Cacao. Chocolate. Cocoa

## Fermentation industries. Beverages. Alcohol

## Nonalcoholic beverages

## Chocolate, coffee, tea, etc. -- Continued

645

## Coffee

Cf. TD888.C6 Air pollution by coffee processing  
plants

650

## Tea

655.A-Z

## Others, A-Z

## Noncarbonated fruit beverages

Cf. TP562+ Fruit juices

656

## General works

657.A-Z

## Special noncarbonated fruit beverages, A-Z

657.L46

## Lemonade

658

## Congelation of beverages

## Bottling. Bottler's machinery and supplies

Including labeling

659.A1

## Periodicals, societies, etc.

659.A2-Z

## General works

660

## Beverage containers

## Oils, fats, and waxes

Cf. TJ1077+ Lubricants

Cf. TP447.F37 Fat substitutes (Food processing and  
manufacture)

669

## Periodicals, societies, etc.

669.5

## Congresses

670

## General works

671

## Analysis, testing, etc.

673

## Bleaching of oils, fats, waxes, etc.

675

## Sulfonated oils

676

## Animal fats, oils, etc.

Cf. TS1980+ Lard, tallow, fish oils, etc.

## Insect waxes

677

## General works

678

## Beeswax

679.A-Z

## Other waxes, A-Z

679.S8

## Sugarcane wax

## Vegetable oils and fats

Cf. TP958+ Essential oils

680

## General works

## Cottonseed oil

681.A1

## Periodicals, societies, etc.

681.A2-Z

## General works

681.5

## Tables, etc.

682

## Linseed oil

683

## Olive oil

684.A-Z

## Other special oils and fats, A-Z

684.B3

## Bati oil

## Oils, fats, and waxes

## Vegetable oils and fats

## Other special oils and fats, A-Z -- Continued

|          |                                    |
|----------|------------------------------------|
| 684.C2   | Cacao butter. Cocoa butter         |
| 684.C275 | Cashew oil                         |
| 684.C3   | Castor oil                         |
|          | Chinese wood oil see TP684.T8      |
| 684.C6   | Cnidioscolus oil                   |
| 684.C7   | Coconut oil                        |
| 684.C8   | Corn oil                           |
| 684.H46  | Hemp seed oil                      |
| 684.I8   | Isano oil                          |
| 684.J64  | Jobba oil                          |
| 684.M3   | Margarine                          |
|          | Cf. HD9330.M37+ Margarine industry |
|          | Oleomargarine see TP684.M3         |
|          | Orange oil see TP959.O7            |
| 684.P3   | Palm oil                           |
| 684.P4   | Peanut oil                         |
| 684.P47  | Perilla oil                        |
| 684.P85  | Pumpkinseed oil                    |
| 684.R23  | Ragweed seed oil                   |
| 684.R3   | Rape oil                           |
| 684.R5   | Rice oil                           |
| 684.R7   | Rosin oil                          |
| 684.R83  | Rubber-seed oil                    |
| 684.S2   | Sal seed oil                       |
| 684.S53  | Shea butter                        |
| 684.S6   | Soybean oil                        |
| 684.S8   | Sunflower seed oil                 |
| 684.T3   | Tall oil                           |
| 684.T8   | Tung oil. Chinese wood oil         |
| 684.V36  | Vanaspati                          |

## Mineral oils and waxes

|           |  |
|-----------|--|
| 685       | General works                                      |
| 686       | Analysis, testing, etc.                            |
| 687       | Reclamation of oil                                 |
|           | Petroleum refining. Petroleum products             |
|           | Cf. TD888.P4 Air pollution by petroleum refineries |
|           | Cf. TN860+ Petroleum extraction                    |
| 690.A1    | Periodicals, societies, etc.                       |
| 690.A2-Z  | General works                                      |
|           | Directories of the industry see TN867              |
| 690.1     | History  |
| 690.2.A-Z | By region or country, A-Z                          |
| 690.25    | Juvenile works                                     |

## Oils, fats, and waxes

## Mineral oils and waxes

## Petroleum refining. Petroleum products -- Continued

690.3 Refineries, refinery equipment, automatic control

Cf. TH4571 Construction of refineries

690.4 Cracking process

690.45 Other special processes (not A-Z)

Including alkylation, hydrogenation, etc.

690.5 Patents

690.6 Safety measures and equipment

Cf. TH9445.P4 Fire prevention and extinction in  
petroleum refineries

690.8 General special

Including corrosion

691 Oil inspection, analysis, testing, standards, etc.

692 Tables

## Special products

692.2 Gasoline

692.3 Chemicals

692.4.A-Z Other products, A-Z

692.4.A8 Asphalts

692.4.B5 Bitumen

692.4.C6 Coke

692.4.H9 Hydrocarbons

692.4.K4 Kerosene

692.4.M3 Mazut

692.4.N3 Naphtha

692.4.O3 Oil gas

692.4.P3 Paraffins

692.4.S9 Sulfur compounds

692.4.T6 Toluene

692.5 Oil and gasoline handling and storage

693 Paraffin

695 Ozokerite, ceresin, etc. Natural paraffin

Cf. TN857 Mineral resources, mining, etc.

698 Synthetic petroleum and its products

699 Shale oil and its products

Cf. TN858+ Mineral industries

## Illuminating industries (Nonelectric)

Cf. HD4486+ Municipal lighting industries

Cf. TH7700+ Domestic illumination

Cf. TK4125+ Electric lighting

700 Periodicals, societies, etc.

## Exhibitions

702.A1 General works

702.A2-Z By region or country, A-Z

Subarrange each country by Table T4b

## Illuminating industries (Nonelectric) -- Continued

- 703 Congresses
- 704 Dictionaries and encyclopedias
- 705 General works
- 710 Tables, pocketbooks, etc.
- 713 General special
- 714 Directories
- Lighting fixtures see TH7960+
- History
  - 715 General works
  - 716 Ancient
  - 717 Medieval
  - 718 Modern
  - 719 Nineteenth century
  - 720 Twentieth century
- Special countries
  - Including regulation, inspection, etc.
  - 721 America
  - 722 North America
    - United States
      - 724.A-.W States, A-W
      - 725.A-Z Cities, A-Z
    - Canada
      - 726.A1-.A4 General works
      - 726.A5-.Y Special provinces, A-Y
      - 727.A-Z Cities, A-Z
    - Mexico
      - 728.A1-.A4 General works
      - 728.A5-Z Special states, A-Z
    - West Indies
      - 729.A1-.A4 General works
      - 729.A5-Z Special islands, A-Z
    - South America
      - 730 General works
      - 731.A-Z Special countries, A-Z
        - Subarrange each country by Table T4a
  - Europe
    - 732 General works
    - 733.A-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Asia
    - 734 General works
    - 735.A-Z Special countries, A-Z
      - Subarrange each country by Table T4a
  - Africa
    - 736 General works

- Illuminating industries (Nonelectric)
  - Special countries
    - Africa -- Continued
  - 737.A-Z Special countries, A-Z
    - Subarrange each country by Table T4a
  - 738 Australia
  - 738.5 New Zealand
  - 739 Pacific islands
  - 741 Street lighting
    - Cf. TK4188 Electric lighting
  - 743 Torches
  - Candles see TP993
  - 746 Lamps
    - Ancient lamps see NK4680
- Gas industry
  - Periodicals, societies, etc. see TP700
  - Congresses see TP703
  - Dictionaries and encyclopedias see TP704
  - Directories see TP714
  - History see TP715+
  - Special countries see TP721+
  - 751 General works
  - 751.1 General special
    - Including corrosion and its prevention
  - 751.3 Business management
  - 751.5 Popular works
  - 751.6 Juvenile works
  - 751.7 Coal, oil, shale, and other resources for gas manufacture
  - 752 Gasworks
    - For special plants see TP721+
  - 753 Tables, pocketbooks, etc.
  - 754 Analysis, tests, recorders, purification, etc.
  - 755 By-products
  - 756 Gas storage. Gasholders
  - 756.5 Underground storage
  - 757 Distribution. Mains, pipes, etc.
  - 758 Uses of gas
    - Cf. TH6800+ Gas in guildings
    - Cf. TP345.A1+ Gas as fuel
  - Natural gas (Mining engineering) see TN880+
  - Natural gas fuel see TP350
  - 759 Gasification of coal and oil
    - Including underground gasification of coal
    - Cf. TP336 Coke, carbonization of coal
    - Cf. TP751.7 Coal and oil resources for gas manufacture
    - Cf. TP762 Gas producers
  - 760 Water gas

- Gas industry -- Continued
- 761.A-Z Other special kinds, A-Z
  - 761.B8 Butane
  - 761.C65 Compressed gas
  - 761.L5 Liquid gas
  - 761.M4 Methane
  - 761.M44 Methylpropene
  - 761.M7 Mond gas
  - 761.P4 Petroleum gas
  - 761.P9 Producer gas
  - 761.P94 Propane
  - Sludge gas see TD769.4
  - 762 Gas producers for industrial purposes
  - Acetylene industry
  - 765 Periodicals, societies, etc.
  - 767 General works
  - 769 Apparatus
  - 770 Manufacture from calcium carbide
  - Clay industries. Ceramics. Glass
    - Cf. HD9590+ Economics
    - Cf. NK3700+ Ceramics (Art industries)
    - Cf. NK5100+ Glass (Art industries)
    - Cf. TA430 Ceramic materials
    - Cf. TA450 Glass in engineering
    - Cf. TN941+ Mineral industries
    - Cf. TT919+ Pottery craft
  - 785 Periodicals, societies, etc.
    - For periodicals on glass alone see TP845
  - 786 Congresses
  - Exhibitions. Museums
  - 787.A1 General works
  - 787.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
  - 788 Dictionaries and encyclopedias
  - 789 Directories
  - 790 Collected works (nonserial)
  - History
  - 791 General works
  - 792 Ancient
  - 793 Medieval
  - 794 Modern
  - Country divisions
  - 797 America
    - United States
  - 798 General works
  - 799.A-.W States, A-W
  - 800.A-Z Cities, A-Z



- Clay industries. Ceramics. Glass  
Country divisions -- Continued
- 801 Canada  
802.A-Z Other American countries, A-Z  
Europe  
802.95 General works  
803.A-Z By region or country, A-Z  
804.A-Z Other countries, A-Z
- Biography  
805 General works  
806.A-Z Individual, A-Z
- Potters' marks see NK4215  
Ceramic technology. Pottery  
General works  
807.A2 Early to 1800  
807.A3-Z 1800-  
808 Popular works  
For pottery craft see TT919+  
808.2 Juvenile works  
809 Tables, calculations, etc.  
809.5 Equipment and supplies  
For kilns see TP841+  
810 Chemistry of pottery  
810.5 Materials  
811 Clay and clay analysis  
Cf. TN941+ Mineral industries - Clay  
811.5 Ceramography  
Glazes, enamels, etc.  
Cf. NK4997+ Enamels (Art)  
Cf. TP823 Pottery decorating  
812.A1 Periodicals, societies, etc.  
812.A2-Z General works  
814 Technical processes  
Including finishing, cutting, machining, etc.  
815 General special  
Including studies of clay, vitrification, dehydration, saggars  
816 Study and teaching  
817 Pottery machinery  
818 Catalogs of pottery, stoneware, porcelain, glass, etc.  
820 Earthenware. Stoneware  
822 Porcelain  
823 Technology of ceramic decoration. Glazes, engobes, colors
- Architectural ceramics  
825 General works  
Bricks and brickmaking  
Cf. TA432+ Properties of bricks  
Special countries

- Clay industries. Ceramics. Glass  
Architectural ceramics  
Bricks and brickmaking  
Special countries -- Continued  
826 United States  
826.5.A-Z Other countries, A-Z  
General works  
827.A1 Early to 1800  
827.A2-Z 1800-  
827.5 Juvenile works  
828 General special  
829 Brickmaking machinery, etc.  
831 Pressed brick  
832.A-Z Other varieties. By name, A-Z  
832.A35 Adobe brick  
832.C5 Clinker brick  
832.C6 Cob  
832.F5 Firebrick  
832.G6 Glazed brick  
832.G7 Granite brick  
832.H7 Hollow brick  
832.L7 Lock-joint brick  
832.S2 Sand-lime brick  
833 General catalogs  
835 Terra-cotta  
Cf. TA432+ Properties of terra-cotta  
837 Tiles  
Cf. NA3705 Architectural decoration  
Cf. NK4670+ Art industries  
Cf. TA432+ Properties of tile  
Cf. TH8521+ Tile laying and tile decoration  
Cf. TT927 Tile craft  
838 Fireclay products and other refractories  
Cf. TA418.26 Engineering properties of refractories  
Cf. TA455.F5 Engineering properties of fireclay  
Cf. TN677+ Metallurgical plants. Metallurgical furnaces  
and refractory materials  
Cf. TP832.F5 Firebricks  
839 Draintile. Sewer pipe  
Including those made of clay, cement, etc.  
Cf. TA447 Testing  
Cf. TD682 Sewers  
Cf. TP885.P5 Cement pipe  
Salt glazes, etc. see TP812.A1+  
Kilns  
Cf. TT924 Pottery craft  
841 General works

- Clay industries. Ceramics. Glass  
 Kilns -- Continued  
 842.A-Z Special, A-Z  
 842.H7 Hoffman's kiln  
 842.T8 Tunnel kilns  
 Glass and glassmaking  
 Cf. NK5100+ Art industries  
 845 Periodicals, societies, etc.  
 Cf. TP785 Ceramics and glass  
 Exhibitions. Museums  
 846.A1 General works  
 846.A2-Z By region or country, A-Z  
 Subarrange each country by Table T4b  
 847 Directories  
 848 Collected works (nonserial)  
 History  
 849 General works  
 850 Ancient  
 851 Medieval  
 852 Modern  
 Special countries  
 United States  
 853.A1-.A3 General works  
 853.A5-.W Special states, A-W  
 854.A-Z Other countries, A-Z  
 855 Study and teaching  
 General works  
 856 Early to 1800  
 857 1800  
 857.3 Popular works. Juvenile works  
 857.5 Tables, calculations, etc.  
 858 General special  
 Including safety measures, patents, etc.  
 Analysis see QD139.G5  
 858.2.A-Z Special aspects, A-Z  
 858.2.M37 Mathematical models  
 859 Glassblowing, manipulation, etc.  
 Cf. QD63.G5 Chemical laboratory manipulation  
 Cf. TT298 Glass craft  
 859.5 Machinery, furnaces and other special equipment  
 859.7 Waste glass. Glass recycling  
 860 Plate glass  
 860.5 Glass fibers  
 Cf. TA450 Engineering materials  
 Cf. TS1549.G5 Textile industries  
 861 Cut glass  
 861.5 Colored glass

- Clay industries. Ceramics. Glass
- Glass and glassmaking -- Continued
- 862 Other special varieties of glass
- Ornamental glass used in buildings, etc.
  - Cf. NK5300+ Decorative arts
  - Cf. TH8271+ Decoration of buildings
  - Cf. TT298 Handicrafts
- 863 General works
- 864 Sand-blast process
- Glassware. Articles made of glass
  - For early American pressed glass see NK5112
- 865 General works
- 866 Bottles
  - Cf. TP659.A1+ Bottling
- 867 Mirrors and mirror-frames
- Optical glass see QC375
- 867.3 Glass-ceramic pipe
- 868 General catalogs and trade publications
- 869 Soluble glass. Water glass
- 870 Artificial minerals
- 871 Artificial stone
  - Cf. TP832.G7 Granite brick
  - Cf. TP832.S2 Sand-lime brick
  - Cf. TP875+ Cement industries
- Artificial gems
- 873 General works
- 873.5.A-Z Special, A-Z
- 873.5.D5 Diamonds
- Cement industries. Cement, lime, mortar, plaster, etc.
  - Including industrial processes only
  - For engineering properties and on-site preparation see TA434+
- 875 Periodicals, societies, etc.
- Directories
- 876.A2 General works
- 876.A4-Z By region or country, A-Z
- 877 General works
- Special countries
- United States
- 879.A1 General works
- 879.A2-.W States, A-W
- 880.A-Z Other countries, A-Z
- Cement manufacture
  - Including concrete when used for the factory-made products provided for in TP885
- 881 General works
- 882 Plants and equipment

Cement industries. Cement, lime, mortar, plaster, etc.

Cement manufacture -- Continued

882.3

Analysis of cement

883

Portland cement

884.A-Z

Other special, A-Z

884.A3

Additives

884.A48

Alumina cement

884.A8

Asbestos cement

884.A85

Asphalt concrete

884.C5

Clinker concrete

884.L5

Lightweight concrete

884.M2

Magnesia cements

884.R7

Roman cement

884.S3

Sand-lime products

884.S6

Slag cement

884.S84

Sulfoaluminate cement

884.S85

Sulfur cement

Articles of cement or concrete

Class here factory made products only

Cf. TT295 Handicrafts

885.A2

General works

885.A5-Z

Special. By name, A-Z

885.C7

Concrete blocks and slabs

Cf. TH1491 Concrete block building construction

885.F7

Fountains

885.G3

Garden furniture

885.L3

Lampposts

885.M7

Monuments

885.P5

Pipe and tile

Cf. TA447 Pipes of cement and clay

Cf. TP839 Drain tile and sewer pipe

Sidewalks, curbs see TE291

885.T7

Trusses

886

Lime and limekilns

Cf. TP841+ Kilns

887

Mortar

888

Plaster and other gypsum products

Cf. TH8135+ Building trades

889

Magnesia industries

Textile bleaching, dyeing, printing, etc.

Cf. TS1474.5 Textile chemistry

Cf. TT852+ Textile crafts

890

Periodicals, societies, etc.

890.5

Congresses

891

Directories

892

Theory

Including color combinations, etc.

## Textile bleaching, dyeing, printing, etc. -- Continued

- 893 General works  
Bleaching, cleaning, scouring
- 894 General works
- 894.5 Bleaches
- 895 Cleaning  
Cf. TP932+ Commercial garment cleaning  
Cf. TP990+ Cleaning compounds
- Dyeing  
Cf. NK9500+ Textile decoration
- 897 General works  
Dyeing of cotton see TP930+
- 899 Dyeing of wool
- 901 Dyeing of silk
- 902 Dyeing of artificial silk
- 903 Dyeing of linen
- 904 Dyeing of synthetic textile fibers  
Dyeing of fur see TS1060+  
Dyeing of leather see TS967  
Dyeing of paper see TS1118.D9
- 907 Special colors. Effects, shades, not dyes  
Including khaki, etc.
- 908 Dyeing of special articles  
Garment dyeing, Commercial see TP932+  
Garment dyeing, Home see TT853+
- Dyes  
Periodicals, societies, etc. see TP890
- 910 General works  
Artificial dyes
- 913 General works
- 914 Coal-tar colors. Aniline dyes. Azo dyes
- 915 Anthracene dyes
- 918.A-Z Other special dyes, A-Z
- 918.A4 Alizarin  
Alizarin black see TP918.N2
- 918.A5 Aniline black
- 918.A6 Anthraquinones  
Artificial indigo see TP924
- (918.A9) Azo dyes  
see TP914
- 918.C37 Carbazoles
- 918.C9 Cyanines
- 918.I5 Induline
- 918.N2 Naphthazarin. Alizarin black
- 918.P65 Polymethines
- 918.S8 Sulfur dyes
- 918.V37 Vat dyes

## Textile bleaching, dyeing, printing, etc.

## Dyeing

## Dyes -- Continued

## Natural dyes

919

## General works

## Indigo

923

## General works

924

## Artificial indigo

925.A-Z

## Other special dyes, A-Z

925.C38

## Catechu

925.C63

## Cochineal

925.K35

## Kamala

925.M33

## Madder

925.P9

## Purple

925.S23

## Safflower

925.W8

## Woad

927

## Mordants

929

## Miscellaneous

## Textile printing. Calico printing. Cotton dyeing

Cf. NK9500+ Textile decoration

Cf. TS1475 Textile design

930

## General works

930.5

## Machinery

931.A-Z

## Special, other than cotton or calico, A-Z

931.C2

## Carpet yarns

931.S6

## Silk fabrics

## Commercial garment cleaning and dyeing

Cf. TT853+ Textile crafts

Cf. TT980+ Laundry

932

## General works

932.3

## Dry cleaning

932.5

## Wet cleaning

932.6

## Spotting

933

## Feather renovating, etc.

## Paints, pigments, varnishes, etc.

Class here manufacture only

Cf. ND1500+ Fine arts

Cf. TT300+ Industrial painting

934

## Periodicals, societies, congresses, etc.

934.3

## Dictionaries and encyclopedias

934.5

## Directories

## General works

## Documents

## United States

935.A2U4-.A2U5

## Serial

935.A2U6

## Special. By date

935.A3A-.A3W

## By state, A-W

- Paints, pigments, varnishes, etc.  
General works  
Documents -- Continued  
935.A4A-.A4Z Other countries, A-Z  
935.A5-Z Nonofficial works  
Paints and pigments. Zinc oxide. Iron oxide  
Cf. TP682 Linseed oil  
Cf. TP951 Blacks (Pigments)  
Cf. TP977+ Turpentine, etc.  
936 General works  
936.5 Paint analysis, testing, etc.  
937 Catalogs  
937.5 Paint machinery  
Including machines used for grinding, mixing, etc.  
937.7 Driers, thinners, fillers, etc.  
937.8 Paint removers  
938 Varnishes. Shellac  
939 Lacquers and enamels  
940 Polishes  
941 Putty  
942 Japanning materials  
944 Blacking materials  
945 High solids coatings  
Ink manufacture  
Cf. Z45 History of writing materials  
Cf. Z112 Paleography  
946 General works  
947 History  
948.A-Z Particular inks. By name, A-Z  
948.A8 Arnold's fluid  
Printers' ink  
Cf. Z247 Printing  
949 General works  
949.9 Catalogs of dealers  
949.95 Other special inks  
Including inks for recording instruments  
Miscellaneous organic chemical industries  
950 General works  
951 Blacks  
Cf. TP245.C4 Carbon  
953 Coal products, coal tar, etc.  
Cf. TP914 Dyes  
955 Dentifrices  
Essences, essential oils and ethers  
Cf. RS201.E7 Pharmacy  
Cf. TP680+ Vegetable oils  
958 General works



## Miscellaneous organic chemical industries

## Essences, essential oils and ethers -- Continued

959.A-Z

Special substances, A-Z

Attar of roses see TP959.R6

959.B4

Bergamot oil

959.C5

Citronella oil

959.C54

Citrus oils

959.E9

Eucalyptus oils

959.L4

Lemongrass oil

959.M8

Mustard oil

959.O7

Orange oil

959.P4

Peppermint oil

959.P5

Pine oil

959.R6

Rose oil. Attar of roses

959.S2

Sassafras oil

## Fertilizers

Cf. S631+ Use of fertilizers

Cf. TD772 Manufacture of fertilizer from sewage sludge

963

General works

963.4.A-Z

Special fertilizers, A-Z

963.4.A38

Ammonium phosphate

963.4.A4

Ammonium sulfate

963.4.C3

Calcium cyanamide

963.4.N5

Nitrogen

963.4.S9

Superphosphates

963.4.U7

Urea

965

Gelatin

Glue and other adhesives

Cf. TS857 Wood adhesives

967

Periodicals, societies, congresses, etc.

967.6

Directories

968

General works

970

Mucilage and pastes

971

Pressure-sensitive adhesives

973

Glycerin

Gums and resins. Turpentine, etc.

Cf. TP1101+ Plastics

977

Periodicals

978

General works

979

Resinography

979.5.A-Z

Special, A-Z

979.5.B4

Benzoin

979.5.H93

Hydrocolloids

Cf. TP456.H93 Food additives

979.5.I6

Ion exchange resin

979.5.P6

Polysaccharides

Perfumes, cosmetics, and other toilet preparations

## Miscellaneous organic chemical industries

Perfumes, cosmetics, and other toilet preparations --

Continued

- 983.A1-.A5 Periodicals, societies, congresses, etc.  
983.A55 Dictionaries and encyclopedias  
983.A6 Directories  
Biography  
983.A65 Collective  
983.A66A-.A66Z Individual, A-Z  
983.A7-.Z4 General works  
983.Z5 Trade publications  
983.3 Cosmetic delivery systems  
984 Hair preparations  
Including shampoos, hair conditioners, etc.  
985 Antiperspirants, deodorants, etc.  
(986-987) Plastics  
see TP1101+  
988 Sealing. Sealing compounds  
Soap, cleaning compounds, etc.  
Cf. TP895 Cleaning  
990 General works  
991 Soaps  
992 Metallic soaps  
992.5 Other cleaning compounds  
993 Candles  
Cf. TP669+ Oils, fats, and waxes  
Cf. TS1980+ Lard, tallow, etc.  
Cf. TT896.5 Handicraft  
994 Surface active agents  
Utilization of wastes  
Prefer field of application  
Cf. TS169 Waste control  
995.A1 Periodicals, societies, etc.  
995.A2-Z General works  
996.A-Z Special, A-Z  
996.B3 Bagasse  
996.C6 Corncobs  
996.C7 Cornstalks  
996.C75 Cotton  
996.F5 Fish  
996.T5 Tin  
996.W6 Wood  
Cf. TS875 Fiberboard, particle board, etc.  
997 Wood distillation  
Cf. TS920+ Chemical processing of wood

- Polymers and polymer manufacture  
 Cf. QD281.P6 Polymerization (Chemistry)  
 Cf. QD380+ Polymer chemistry  
 Cf. TA455.P58+ Engineering materials  
 Cf. TP156.P6 Polymerization (Chemical engineering)  
 Cf. TP248.65.P62 Polymers (Biotechnology)
- 1080 Periodicals, societies, etc.  
 1081 Congresses  
 1087 General works  
 1088 Popular works  
 1089 Juvenile works  
 1091 Handbooks, tables, etc.  
 1092 General special  
 Technical processes see TP1150+  
 Special polymers see TP1180.A+  
 Special forms see TP1183.A+  
 Special products see TP1185.A+  
 Elastomers, synthetic rubber see TS1925  
 Synthetic fibers see TS1548.2+  
 Plastics  
 Cf. HD9661+ Economics  
 Cf. TA455.P5+ Engineering materials  
 Cf. TA668 Structural engineering  
 Cf. TJ1194 Materials used in machine and hand tools  
 Cf. TT297+ Plastic craft
- 1101 Periodicals, societies, etc.  
 (1103) Yearbooks  
       see TP1101
- 1105 Congresses  
 Exhibitions. Museums
- 1107.A1 General works  
 1107.A2-Z By region or country, A-Z  
       Subarrange each country by Table T4b
- 1109 Collected works (nonserial)  
 1110 Dictionaries and encyclopedias  
 1111 Plastics literature  
 1112 Directories  
 1114 Patents  
 History
- 1116 General works  
 Special countries
- 1117 United States  
 1118.A-Z Other countries, A-Z
- Biography  
 1119.A1 Collective  
 1119.A2-Z Individual, A-Z  
 1120 General works

## Polymers and polymer manufacture

## Plastics -- Continued

- 1122 General special
- 1124 Popular works
- 1125 Juvenile works
- Study and teaching
- 1127 General works
- 1129 Laboratory manuals
- 1130 Handbooks, manuals, tables, etc.
- 1132 Catalogs
- 1135 Plastics plants and equipment
- 1140 Technical chemistry of plastics (Analysis)
  - For testing for mechanical properties see TA455.P5+
  - For use of plastics in fireproof construction see TH1074
- 1142 Additives
  - For plasticizers see TP247.7
- 1145 Handling, packing, etc.
- 1148 Safety measures
- Technical processes
  - For general works see TP1120
- Molding and casting
- 1150 General works
- 1151.A-Z Special molding and casting processes, A-Z
- 1151.I55 Injection blow molding
- 1151.R43 Reaction injection molding
- 1151.T48 Thermoforming
- 1155 Machining and cutting
- 1160 Welding
- 1165 Joining and bonding
- 1170 Finishing and decorating
- 1175.A-Z Other processes, A-Z
- 1175.C3 Calendering
- 1175.E9 Extrusion
- 1175.M4 Metal coating
  - Class here works on metal coatings on plastics
- 1175.M5 Mixing
- 1175.P84 Pultrusion
- 1175.R43 Recycling
- 1175.S6 Spraying with plastics
  - For powder coating of metals see TS699
- Reinforced plastics
- 1177 General works
- 1177.5.A-Z Special reinforcement materials, A-Z
- 1177.5.A8 Asbestos
- 1177.5.F5 Fibers
- 1177.5.G5 Glass
- 1180.A-Z Special plastics, A-Z

## Polymers and polymer manufacture

## Plastics

## Special plastics, A-Z -- Continued

|           |                             |
|-----------|-----------------------------|
| 1180.A15  | ABS resins                  |
| 1180.A33  | Acetal resins               |
| 1180.A35  | Acrylic resins              |
| 1180.A5   | Aminoplastics               |
| 1180.A58  | Antimicrobial polymers      |
| 1180.B3   | Bakelite                    |
| 1180.B55  | Biodegradable plastics      |
| 1180.C2   | Casein                      |
| 1180.C4   | Cellophane                  |
| 1180.C5   | Celluloid                   |
| 1180.C6   | Cellulose                   |
| 1180.D45  | Dendrimers                  |
| 1180.D5   | Diallyl phthalate           |
| 1180.E6   | Epoxy resins                |
| 1180.F5   | Fiberloid                   |
| 1180.F6   | Fluorocarbons               |
| 1180.F8   | Furans                      |
| 1180.G8   | Gum plastics                |
| 1180.I5   | Indene resins               |
| 1180.L8   | Lucite                      |
|           | Nylon see TP1180.P55        |
| 1180.P39  | Phenolic resins             |
| 1180.P4   | Phenolite                   |
| 1180.P5   | Plexiglas                   |
| 1180.P53  | Polyacetylenes              |
| 1180.P54  | Polyacrylamides             |
| 1180.P55  | Polyamides. Nylon           |
| 1180.P552 | Polyanilines                |
| 1180.P553 | Polyaryethers               |
| 1180.P555 | Polybishchloromethyloxetane |
| 1180.P56  | Polybutenes                 |
| 1180.P57  | Polycarbonates              |
| 1180.P6   | Polyesters                  |
| 1180.P65  | Polyethylene                |
| 1180.P653 | Polyethylene glycol         |
| 1180.P655 | Polyethylenimine            |
| 1180.P66  | Polyimides                  |
| 1180.P666 | Polymer liquid crystals     |
| 1180.P67  | Polyolefins                 |
| 1180.P678 | Polyphenylene oxide         |
| 1180.P68  | Polypropylene               |
|           | Polystyrene see TP1180.S7   |
| 1180.P685 | Polysulphides               |
| 1180.P7   | Polytetrafluorethylene      |

## Polymers and polymer manufacture

## Plastics

## Special plastics, A-Z -- Continued

|           |   |
|-----------|---|
| 1180.P8   | Polyurethanes                                 |
|           | Polyvinyl see TP1180.V48                      |
| 1180.S7   | Styrene. Polystyrene                          |
| 1180.T4   | Tenite  |
| 1180.T5   | Thermoplastics                                |
| 1180.T55  | Thermosetting plastics                        |
| 1180.U7   | Urea-formaldehyde resins                      |
| 1180.V42  | Vinidur                                       |
| 1180.V48  | Vinyl. Polyvinyl                              |
| 1180.W37  | Water-soluble polymers                        |
| 1183.A-Z  | Special forms, A-Z                            |
| 1183.B3   | Bars  |
| 1183.F5   | Films   |
| 1183.F6   | Foamed plastics                               |
| 1183.L3   | Laminated plastics                            |
| 1183.M5   | Microcrystalline polymers                     |
| 1183.P68  | Powders                                       |
|           | Reinforced plastics see TP1177+               |
| 1185.A-Z  | Special products, A-Z                         |
| (1185.C6) | Containers                                    |
|           | see TS198.3.P5                                |
| (1185.E4) | Electric apparatus and appliances             |
|           | see TK454.4.P55                               |
| (1185.E5) | Electric insulators                           |
|           | see TK3441.P55                                |
| 1185.E9   | Eye protectors                                |
| 1185.F8   | Furniture                                     |
| 1185.H4   | Helmets                                       |
|           | Lenses for optical instruments see TS517.5.P5 |
| 1185.M3   | Machine parts                                 |
| 1185.P5   | Pipe  |
|           | Cf. TA448 Testing of plastic pipe             |
|           | Cf. TH6330 Plastic pipes in plumbing          |
| 1185.R46  | Resins  |
| 1185.S65  | Sporting surfaces                             |
| 1185.T3   | Tanks   |
| 1185.T5   | Tiles   |

|           |   |
|-----------|---|
|           | Photography   |
|           | Cf. BP190.5.A7 Islam and photography  |
| 1         | Periodicals. Societies. Almanacs  |
| 5         | Congresses  |
|           | Exhibitions. Museums  |
|           | Cf. TR646.A+ Exhibitions of artistic photography  |
| 6.A1      | General works   |
| 6.A2-Z    | By region or country, A-Z   |
|           | Subarrange each country by Table T4b  |
| 6.5       | Collectors' manuals. Collections of old photographs and photographic equipment                                |
| 7         | Collected works (nonserial)   |
| 9         | Dictionaries. Encyclopedias   |
|           | Communication of photography information  |
| 10        | General works   |
| 11        | Computer network resources  |
|           | Including the Internet  |
| 12        | Directories. Bluebooks  |
| 15        | History (General)   |
| 21-127    | Country divisions (Table T1a)   |
|           | Add country number in table to TR0  |
|           | Biography   |
|           | Prefer TR650+ for collections of artistic photographs by one photographer where biographic material is slight |
| 139       | Collective  |
| 140.A-Z   | Individual, A-Z   |
|           | General works   |
| 144       | Early to 1850   |
| 145       | 1850-   |
| 146       | Elementary works. Handbooks, manuals, etc.  |
| 147       | General special   |
|           | Including manipulation, causes of failures, etc.  |
| 148       | Photographic amusements. Trick photography. Special effects   |
| 149       | Popular works. Juvenile works   |
| 150       | Photographers' reference handbooks  |
| 151       | Tables, formulas, etc.  |
| 154       | Photography as a profession   |
| 161       | Study and teaching  |
| 162       | Examinations, questions, etc.   |
| 179       | Composition   |
| 183       | Psychology, aesthetics, etc.  |
|           | Cf. TR640+ Artistic photography   |
| 184       | Political aspects   |
| 185       | Addresses, essays, lectures   |
| 187       | Photographic criticism  |
| (193-195) | Law. Legislation  |
|           | see class K   |

- Materials, supplies, etc.
- 196 General works  
Including testing
- 196.5.A-Z Special companies, A-Z
- 197 Catalogs of apparatus
- 198 Catalogs of materials and supplies
- 199 Catalogs of photographs (General)  
For catalogs of photographs on specific subjects, see the subject  
For catalogs of photographs treated as an information resource see ZA4650+  
Cf. TR640+ Artistic photography
- Theory of photographic processes in general
- 200 General works  
Photographic chemistry and chemicals
- 210 General works
- 212 Photographic chemicals  
Photographic physics
- 215 General works
- 220 Photographic optics
- 222 Properties of the photographic image. Image science
- 225 Recovery of photographic waste
- Cameras
- 250 General works  
Prefer TR263 for special makes of cameras  
Motion picture cameras see TR880
- 256 Digital cameras
- 257 Medium format cameras
- 257.5 Streak cameras
- 258 View cameras
- 259 Stereoscopic cameras
- 260 Hand cameras
- 260.5 Automatic cameras. Electric eye cameras
- 260.7 Autofocus cameras
- 261 Reflex cameras
- 262 Miniature cameras
- 263.A-Z Special makes of film and digital cameras, A-Z
- 263.A35 Agfa
- 263.A7 Argus
- 263.C3 Canon
- 263.C5 Ciro-flex
- 263.C6 Contax
- 263.E75 Ernemann
- 263.E9 Exakta
- 263.F85 Fujifilm
- 263.H3 Hasselblad
- 263.K54 Kodak



## Cameras

Special makes of film and digital cameras, A-Z -- Continued

263.K55 Konica  
263.L4 Leica  
263.L66 Lomo  
263.M47 Minolta  
263.M5 Minox  
263.N5 Nikon  
263.O4 Olympus  
263.P4 Pentax  
263.P6 Polaroid Land  
263.R4 Retina  
263.R6 Rollei  
263.S66 Sony  
263.Y3 Yashica  
263.Z4 Zeiss  
265 Camera accessories

Catalogs see TR197

## Digital photography

Cf. TR502 Photo CDs

267 General works  
267.3 Computational photography  
267.5.A-Z Special software, A-Z  
Including individual programs, e. g. Photoshop  
267.5.A25 Adobe Camera Raw  
267.5.A3 Adobe Photoshop  
267.5.A33 Adobe Photoshop elements  
267.5.A355 Adobe Photoshop lightroom  
267.5.A64 Aperture  
267.5.A965 Autodesk Smoke  
Corel PaintShop see TR267.5.P35  
267.5.F55 Flickr  
267.5.G56 GIMP  
267.5.I57 Instagram  
267.5.I64 iPhoto  
267.5.M53 Microsoft Digital image  
267.5.N56 Nik Software HDR Efex Pro  
267.5.P35 PaintShop Pro  
267.5.P53 Picasa  
267.5.V84 VueScan  
Spectral imaging  
267.73 General works  
267.733.A-Z Special topics, A-Z  
267.733.M85 Multispectral imaging  
268 Pinhole photography  
269 Instant photography  
Lenses

|         |   |
|---------|---|
|         | Lenses -- Continued                                   |
| 270     | General works   |
| 271.A-Z | Special, A-Z  |
| 271.M33 | Macro   |
|         | Cf. TR684 Macrophotography                            |
| 271.T44 | Telephoto   |
|         | Cf. TR770 Telephotography                             |
| 271.W53 | Wide-angle  |
|         | Cf. TR687 Wide-angle photography                      |
| 271.Z65 | Zoom  |
| 272     | Shutters  |
|         | Sensitive surfaces                                    |
|         | Including sensitometry                                |
| 280     | General works   |
| 281     | Plates  |
| 283     | Films   |
| 285     | Papers  |
|         | Photographic processing. Darkroom technique (General) |
| 287     | General works   |
|         | Treatment of negatives                                |
| 290     | General works   |
| 295     | Development   |
| 299     | Intensification and reduction                         |
| 305     | Fixing and washing                                    |
| 310     | Finishing, retouching                                 |
| 312     | Contact prints  |
|         | Treatment of positives                                |
| 320     | General works   |
|         | Printing  |
| 330     | General works   |
| 333     | By electric or other artificial light                 |
| 335     | Fixing. Toning. Intensification                       |
| 337     | Finishing   |
| 340     | Trimming, mounting and framing of prints              |
|         | Photographic processes                                |
| 350     | General works   |
|         | Direct positives                                      |
| 360     | General works   |
| 365     | Daguerreotype   |
| 370     | Ambrotype   |
| 375     | Ferrotypes (Tintypes)                                 |
|         | Processes with salts of silver                        |
| 385     | General works   |
| 390     | Collodion process                                     |
| 395     | Emulsion processes. Aristotypes, calotypes, etc.      |
| 400     | Other processes. Salts of silver and other metals     |
|         | Including kallitype                                   |

- Photographic processing. Darkroom technique (General)  
Photographic processes -- Continued  
Processes with salts of iron  
405 General works  
415 Blueprints from photographic negatives. Cyanotypes  
Cf. TR921 Industrial blueprints  
420 Processes with salts of platinum  
Processes with salts of metals  
430 General works  
433 Chromium. Ozotype, etc.  
440 Carbon processes. Pigment processes  
443 Oil processes. Bromoil  
445 Gum-bichromate process. Photoaquatint  
453 Photography of colored objects. Orthochromatic,  
isochromatic, etc.  
Cf. TR510+ Color photography  
455 Other processes  
465 Conservation and restoration of photographs  
470 Copying  
Cf. TR825 Reproductions (photocopying)  
Cf. TR835 Reproductions (microfilming)  
Cf. TR900+ Reproductions (industrial)  
475 Enlargement and reduction  
Cf. TR905 Industrial reproduction  
485 Coloring of prints. Airbrush work, etc.  
487 Photo-oleographs  
495 Photographs on metal, glass, cloth, leather, etc.  
500 Photoenamels. Photoceramics  
501 Photograph albums  
502 Photo CDs  
Transparencies. Diapositives  
504 General works  
505 Lantern slides  
Projectors  
Cf. TR890 Motion picture projectors  
506 General works  
507 Catalogs  
508 Overhead projectors  
Color photography  
Cf. TR453 Photography of colored objects  
510 General works  
515 Materials, supplies, etc.  
Including testing  
520 Tricolor  
525 Interference. Lippmann's process  
General darkroom procedures. Processing of exposed film  
530 General works

|       |   |
|-------|---|
|       | Color photography   |
|       | General darkroom procedures. Processing of exposed film --      |
|       | Continued   |
|       | Treatment of positives  |
| 540   | General works   |
| 545   | Printing  |
|       | Studio and laboratory   |
| 550   | General works   |
| 560   | Darkrooms   |
| 570   | Accessories and apparatus                                       |
| 573   | Studio lighting   |
|       | Portrait photography  |
|       | Cf. TR680+ Artistic photography                                 |
| 575   | General works   |
| 577   | Advice to sitters   |
|       | Including posing guides   |
| 581   | Business methods  |
|       | For selling photographs see HF5439.P43                          |
|       | Lighting  |
|       | Cf. TR573 Studio lighting                                       |
|       | Cf. TR891 Lighting for motion pictures                          |
|       | Artificial and natural  |
| 590   | General works   |
| 590.5 | Light filters   |
|       | Exposures   |
| 591   | General works   |
| 592   | Instantaneous   |
|       | Including exposures of one thousandth of a second or longer     |
| 593   | High speed  |
|       | Including exposures shorter than one thousandth of a second     |
| 594   | Multiple exposures  |
|       | Including exposure bracketing and high dynamic range<br>imaging |
| 595   | Daylight  |
| 600   | Artificial light  |
|       | Flashlight. Flash photography                                   |
| 605   | General works   |
| 606   | Electronic flash  |
| 610   | Night views   |
| 615   | Open air views  |
| 620   | Interiors   |

**Applied photography**

Class here techniques for taking and using photographs in special fields

Collections of photographs in special fields are normally classed with the field, e.g., pictorial works in natural history in QH46 views of modern Greece in DF719 pictorial works on North American Indians in E77.5

For collections of artistic photographs, however, or collections where the artistic intent is more overriding than the actual subject content see TR640+

Periodicals, exhibitions, dictionaries, etc.

see TR1+

624

General works

Artistic photography

640

Periodicals, societies, congresses, etc.

642

General works

Exhibitions

Prefer TR650+ for collections of photographs

Works of more than one photographer

United States

644

General works

645.A-Z

By city, A-Z

*Under each city:*

*.x                      General works*

*.x2A-.x2Z            By museum, A-Z*

646.A-Z

Other regions or countries, A-Z

Subarrange each country by Table T4a

647.A-Z

Works of individual photographers. By name of photographer, A-Z

Under each photographer, arrange by date of exhibition

Class here works of individual photographers not limited by topic, e.g., class landscape photography by Ansel Adams in TR660 as well as exhibitions of their work

Collections

650

General works

By period

651

1800-1850

652

1851-1900

653

1901-1950

654

1951-2000

655

2001-

656

Abstract photography

656.5

Still life photography

Cf. TR721+ Nature photography

656.7

Photography of food

Photography of art

657

General works

- Applied photography
- Artistic photography
  - Photography of art -- Continued
  - 658 Paintings
  - 658.3 Sculpture
  - Photography of handicraft
  - 658.5 General works
  - 658.58 Ventriloquists' dummies
  - 659 Architectural photography
    - Cf. NA2543.P46 Architecture and photography
  - 659.5 Outdoor photography
    - For lighting of open air views see TR615
  - 659.8 Street photography
  - Landscape photography
  - 660 General works
  - 660.5 Collections
  - 661 Panoramic views
  - 662 Gardens
  - Marines. Seashore photography. Water
    - For photography of marine animals see TR729.M37
    - Cf. TR800 Underwater photography
  - 670 General works
  - 670.5 Ships, boats, etc.
  - 672 Mines
  - Human figures. Photography of the nude
  - 674 General works
  - 675 Collections
  - 676 Erotic photography
  - 678 Glamour photography
  - 679 Fashion photography
  - 679.5 Humorous photography
  - Portraits
    - Cf. TR575+ Portrait photography
  - 680 Collections
  - 681.A-Z Special classes of persons, A-Z
    - 681.A26 Acrobats
    - 681.A28 Actors
    - 681.A33 Africans
    - 681.A35 Aged. Older people
    - 681.A38 AIDS patients
    - 681.A67 Architects
    - 681.A69 Artisans
    - 681.A7 Artists
    - 681.A75 Asians
    - 681.A84 Athletes
    - 681.A85 Authors
    - 681.A94 Automobile drivers

## Applied photography

## Artistic photography

## Portraits

## Special classes of persons, A-Z -- Continued

|          |                                       |
|----------|---------------------------------------|
| 681.B35  | Bald persons                          |
| 681.B37  | Baseball players                      |
| 681.B52  | Blacks                                |
| 681.B54  | Blind                                 |
| 681.B57  | Bodybuilders                          |
| 681.B6   | Boys                                  |
|          | Brides see TR819                      |
| 681.C5   | Children                              |
| 681.C62  | Coal miners                           |
|          | Comfort women see TR681.P73           |
| 681.C66  | Cooks                                 |
| 681.C68  | Couples                               |
|          | Dancers see GV1785.A+                 |
|          | Daughters and fathers see TR681.F33   |
| 681.D43  | Dead                                  |
| 681.D63  | Dog owners                            |
| 681.D74  | Dramatists                            |
| 681.E94  | Exiles                                |
| 681.F28  | Families                              |
| 681.F3   | Famous persons                        |
| 681.F316 | Farmers                               |
| 681.F32  | Father and child                      |
| 681.F33  | Fathers and daughters                 |
| 681.F34  | Fathers and sons                      |
|          | Foreign visitors see TR681.V58        |
| 681.G5   | Girls                                 |
| 681.G73  | Grandmothers                          |
| 681.G9   | Gypsies                               |
| 681.H35  | Handicapped. People with disabilities |
| 681.H63  | Homeless persons                      |
| 681.H65  | Homosexuals                           |
| 681.I54  | Immigrants                            |
| 681.I58  | Indigenous peoples                    |
| 681.I6   | Infants                               |
| 681.J35  | Janitors                              |
| 681.L4   | Legislators                           |
| 681.L44  | Leisure class                         |
| 681.L47  | Letter carriers                       |
| 681.L63  | Lobbyists                             |
| 681.M38  | Mathematicians                        |
| 681.M4   | Men                                   |
| 681.M44  | Merchants                             |
| 681.M65  | Monsters                              |

## Applied photography

## Artistic photography

## Portraits

## Special classes of persons, A-Z -- Continued

- 681.M67 Mothers
- 681.M69 Motorcyclists
- 681.M72 Mountain people
- (681.M86) Musicians see ML87-ML88
- 681.N54 Night people
- 681.N66 Nomads
- Older people see TR681.A35
- People with disabilities see TR681.H35
- 681.P56 Photographers
- 681.P58 Poker players
- 681.P59 Politicians
- 681.P6 Poor
- 681.P67 Pregnant women
- 681.P69 Prisoners
- 681.P73 Prostitutes. Comfort women
- 681.P76 Psychiatric hospital patients
- 681.P84 Punks
- 681.R44 Redheads
- 681.R48 Refugees
- Romanies see TR681.G9
- 681.S24 Sailors
- 681.S36 Scholars
- 681.S37 Scientists
- 681.S45 Skinheads
- 681.S6 Snapshooters
- Sons and fathers see TR681.F34
- 681.S78 Students
- 681.S88 Swimmers
- 681.T47 Terminally ill
- 681.T7 Transvestites
- 681.T85 Twins
- 681.V58 Visitors, Foreign
- 681.W6 Women
- 681.W62 Women clerks (Retail trade)
- 681.W65 Working class
- 681.Y58 Young men
- 681.Y6 Youth
- 682 Photographic patterns. Textures
- Close-up photography
- 683 General works
- 683.5 Table-top photography
- 684 Macrophotography
- 685 Composite photography. Photomontage



- Applied photography
- Artistic photography -- Continued
- 686 Photography of the grotesque
- 687 Wide-angle photography
- 688 Photograms
- 689 Vernacular photography
  - Including photographs taken with cameras worn by animals,  
etc., for artistic or scientific purposes
- Commercial photography
  - Cf. TR550+ Studio and laboratory
- 690 General works
- 690.2 Freelance photography. Amateur photography for profit
  - Cf. TR820 Photojournalism
- 690.4 Advertising photography
- 690.6 Stock photography
- Scientific and technical applications
- 692 General works
- 692.5 General special
- Photogrammetry
  - Cf. TA592+ Photography in surveying
  - Cf. TR810 Aerial applications
- 693 General works
- 695 Tables, formulas, etc.
- 696 Instruments, equipment, etc.
- 702 Photography in engineering
- 706 Industrial photography
- 708 Medical photography
- 710 Scientific expeditions
- 713 Space photography
- 714 Photography of airplanes
- 715 Photography of railroads
  - Including model railroads
- 716 Photography of automobiles
- Photography of machinery
- 717 General works
- 717.3.A-Z Special subjects, A-Z
  - Airplanes see TR714
  - Automobiles see TR716
- 717.3.S49 Sex machines
- Astronomical photography see QB121+
- Photomicrography see QH251
- Nature photography
  - Cf. QH46 Pictorial works in natural history
- 721 General works
- Plants, flowers, etc.
- 724 General works
- 726.A-Z Special subjects, A-Z

Applied photography  
Scientific and technical applications  
Nature photography  
Plants, flowers, etc.  
Special subjects, A-Z -- Continued  
Bamboo  
Bark  
Fungi  
Leaves  
Lotus  
Orchids  
Roses  
Trees  
Animals  
General works  
Special subjects, A-Z  
Birds  
Cats  
Cows  
Dogs  
Elephants  
Fish  
Horses  
Insects  
Including individual insects  
Livestock  
Marine animals  
Primates  
Reptiles  
Shells  
Wildlife  
Rocks  
Minerals  
Meteorological photography  
General works  
Clouds  
Agricultural photography  
General works  
Farms  
Grain elevators  
Radiography  
Cf. QD945 X-ray crystallography  
Cf. RC78+ Medical radiography  
Cf. TA417.5 Radiographic examination  
Cf. TR896.8 Cinderradiography  
Infrared photography  
Polarized-light photography

726.B25  
726.B3  
726.F85  
726.L42  
726.L66  
726.O73  
726.R66  
726.T7

727  
729.A-Z  
729.B5  
729.C3  
729.C69  
729.D6  
729.E45  
729.F5  
729.H6  
729.I6

729.L5  
729.M37  
729.P74  
729.R47  
729.S54  
729.W54

732  
732.5

732.8  
733

739  
739.5  
739.6  
750

755  
757

- Applied photography
- Scientific and technical applications -- Continued
- 760 Kirlian photography. High voltage photography
- 770 Telephotography
- 775 Archaeological photography
- 780 Stereophotography
  - Cf. TR858 Stereoscopic motion pictures
- (785) Military photography
  - see UG476
- Geographical applications
- 786 General works
- 787 Mountain photography
- 788 Subterranean photography. Cave photography
  - Cf. TR672 Photography of mines
- 790 Travel photography
- 792 Cold weather photography
- 795 Tropical photography
- 800 Underwater photography
  - Cf. GC10.4.P5 Photography in oceanography
  - Cf. TR670+ Marines. Seashore photography. Water
- 810 Aerial photography. Photographic interpretation
  - Cf. G70.4 Remote sensing in geography
- Photography in library science see Z681+
- 816 Audiovisual photography. Photography in education
- 817 Stage photography. Theater photography
- 817.5 Dance photography
  - Cf. GV1596 Pictorial works
  - Cf. GV1785.A+ Portraits of dancers
- 818 School photography
- 819 Wedding photography
  - Cf. HF5439.W4 Salesmanship
- 820 Photojournalism
- 820.5 Documentary photography
  - Cf. D16.155 Photography in historiography
- 820.6 War photography
- 821 Sports photography
- 822 Photography in criminology and law
  - Cf. KF8968 Photographic evidence (U.S.)
- Photographic reproduction. Photocopying processes
  - Cf. Z265+ Printing
- 824 General works
- 824.4 Dictionaries. Encyclopedias
- 824.6 Directories
- Industrial reproduction see TR900+
- Map reproduction see GA150.7
- Photomechanical processes see TR925+
- Photography of art objects see TR657+

- Applied photography  
Photographic reproduction. Photocopying processes --  
Continued
- 825 Photography of manuscripts, historic documents, etc.  
835 Microfilming. Microphotography  
Including standards  
Class here works on the operation and use of equipment to  
make microforms or other images too small to be seen by  
the naked eye  
For works on the design and use of books, documents,  
computer-output data, etc., in a microform format  
see Z265.5.M53  
For micropublishing see Z286.M5
- 840 Chronophotography  
Cf. TR857 Time lapse cinematography  
Cinematography. Motion pictures. Video recording  
Cf. NC1765+ Cartoons  
Cf. PN1993+ Drama  
Cf. TR592 Instantaneous photography  
Cf. UF840 Photochronograph in ballistics
- 845 Periodicals. Societies. Collections  
846 Congresses  
847 Dictionaries and encyclopedias  
847.5 Directories  
848 History  
Biography  
Including inventors, projectionists, etc.  
For producers, directors, etc. see PN1998.3.A+  
For actors and actresses see PN2287.A+
- 849.A1 Collective  
849.A2-Z Individual, A-Z
- 850 Treatises  
851 Elementary and juvenile works  
851.8 Tables, calculations, etc.  
852 Study and teaching  
Special photographic processes
- 853 Color cinematography  
854 3-D films. Stereoscopic motion pictures  
Including true 3-D and simulated 3-D
- 855 Wide-screen processes  
857 Time-lapse photography  
858 Trick cinematography. Special effects  
859 Front-screen projection  
860 Digital cinematography  
Including the use of digital video for purposes of making a  
motion picture product  
For special software see TR897.72.A+

- Cinematography. Motion pictures. Video recording  
Special photographic processes -- Continued
- 862 High definition video recording  
Motion picture machines
- 878 General works
- 880 Motion picture cameras. Cinematograph  
Electronic cameras. Television cameras
- 882 General works
- 882.3 Camcorders  
Cf. TK6655.V5 Television equipment  
Cf. TR896+ Home video photography
- 882.5 Television camera operation
- 883.A-Z Special makes of motion picture cameras, A-Z
- 883.A77 Arriflex
- 883.B6 Bolex
- 883.D4 De Jur
- 883.P36 Panaflex
- 883.R43 Red One
- 885 Other special machines  
Including kinoscope, photochronograph, etc.
- Motion picture film
- 886 General works
- 886.2 Processing of exposed film
- 886.3 Preservation
- 886.5 Splicing
- 886.7 Dubbing
- 886.9 Titling  
Cf. PN1995.9.C65 Credit titles  
Cf. PN1995.9.T57 Titles of motion pictures
- 887 Catalogs, etc.
- 889 Classification
- 890 Projection
- 891 Lighting for motion pictures  
Including lighting for video recording  
For lighting for television broadcasting see PN1992.8.L5  
Cf. TR590+ Lighting
- Applied cinematography
- 892 General works
- 892.4 Artistic cinematography
- 892.7 Educational cinematography  
Cf. LB1044 Audiovisual education
- Scientific cinematography
- 893 General works  
Microcinematography see QH46
- (893.2) Medical cinematography  
Nature cinematography
- 893.4 General works

|            |   |
|------------|---|
|            | Cinematography. Motion pictures. Video recording                      |
|            | Applied cinematography  |
|            | Scientific cinematography   |
|            | Nature cinematography -- Continued                                    |
| 893.5      | Wildlife cinematography   |
| 893.8      | Underwater cinematography   |
| 894        | Industrial cinematography   |
|            | Commercial cinematography   |
| 894.3      | General works   |
| 894.4      | Freelance cinematography  |
| 894.6      | Advertising cinematography  |
| 895        | Newsreel cinematography   |
|            | Cf. PN4784.M6 Motion-picture journalism                               |
| 895.4      | Documentary cinematography  |
|            | Cf. PN1995.9.D6 Drama   |
| 895.6      | Sports cinematography   |
|            | Family cinematography. Amateur cinematography. Home video photography |
| 896        | General works   |
| 896.5      | Vacation and travel cinematography                                    |
| 896.8      | Cineradiography   |
| 897        | Sound motion pictures   |
|            | Animated motion pictures  |
|            | Cf. NC1765+ Motion picture cartoons                                   |
| 897.5      | General works   |
| 897.6      | Stop-motion animation   |
|            | Computer animation  |
| 897.7      | General works   |
| 897.72.A-Z | Special software, A-Z   |
| 897.72.A14 | 3ds max   |
| 897.72.A34 | Adobe Edge animate  |
| 897.72.B55 | Blender   |
| 897.72.C36 | Camtasia Studio   |
| 897.72.F53 | Flash   |
| 897.72.M39 | Maya  |
| 897.72.T66 | Toon Boom animate   |
| 897.74     | Machinima   |
| 897.75     | Morphing  |
| 897.77     | Rigging   |
| 898        | Motion pictures for television  |
|            | Cf. PN1992.63 Drama   |
|            | Cf. PN1992.8.F5 Films in television programming                       |
|            | Editing of motion pictures  |
| 899        | General works   |
| 899.5      | Time code   |
|            | Industrial reproduction   |
| 900        | General works   |

TR

## PHOTOGRAPHY

TR

- Industrial reproduction -- Continued
- 905 Enlargements
- 910 Reductions
- Direct reproductions on same scale
- 915 General works
- Processes for reproducing working drawings, plans, etc.
- 920 General works
- 921 Blue processes. Blueprints
- 923 Black processes
- Photomechanical processes
- 925 General works
- 927 Special applications. Book illustration, etc.
- Collotype processes
- 930 General works
- 933 Albertype
- 935 Autotype
- 937 Heliotype
- Photolithography
- 940 General works
- 950 Aluminium process
- 955 Photozincography
- 960 Photoxylography
- 970 Photoengraving. Relief processes
- Cf. TS171.95 Three-dimensional printing
- 975 Halftone process
- 976 Mezzograph
- 977 Color processes
- Cf. TR510+ Color photography
- 980 Photogravure. Heliogravure. Intaglio process
- Gelatine relief processes
- 990 Photogalvanography
- 995 Woodburytype. Photoglyptie
- 997 Stannotype
- (1010) Phototypesetting
- see Z253.2
- Electrophotography
- 1035 General works
- Electrostatic printing
- 1042 General works
- 1045 Xerography
- 1050 Ferromagnetography

## Manufactures

Cf. HD9000+ Economics  
 Cf. HF5686.M3 Accounting  
 Cf. TP1+ Chemical technology  
 Cf. TT1+ Handicrafts

- 1 Periodicals, societies, etc.
- 5 Congresses  
 Museums and local exhibitions see T180+  
 Exhibitions, national and international see T391+
- 7 Collected works (nonserial)
- 9 Encyclopedias and dictionaries  
 Directories see T11.95+
- 15 History
- 21-127 Country divisions (Table T1a)  
 Add country number in table to TS0  
 Cf. T21+ Technology (General)
- Biography
  - 139 Collective
  - 140.A-Z Individual, A-Z
- General works
  - 144 Early to 1800
  - 145 1800-
  - 146 Juvenile works. Popular works
  - 147 Pictorial works
- Workshop manuals, etc. see TT153+
- Machinists' manuals see TJ1165
- Tables, receipts, etc. see T49
- 148 Addresses, essays, lectures
- 149 General special
- Production management. Operations management
  - Including factory management
- 155.A1 Periodicals, societies, etc.
- 155.A2-Z General works
  - Study and teaching see T56.4+
  - Manufacturing personnel
    - Cf. HF5549+ Personnel management
    - Cf. T55+ Plant safety
    - Cf. TA158+ Industrial technicians
  - 155.4 Plant supervisors
  - 155.5 Foremen
- Data processing. CAD/CAM systems
  - 155.6 General works
  - 155.63 Computer integrated manufacturing systems
  - 155.65 Flexible manufacturing systems
  - 155.67 Parallel kinematic machines
  - 155.7 Environmental aspects  
 Control of production systems



## Production management. Operations management

## Control of production systems -- Continued

155.8

General works

Quality control

Cf. TJ245.5 Quality control of machinery

156.A1

Periodicals, societies, etc.

156.A2-Z

General works

Standards

156.16

General works

156.17.A-Z

Special, A-Z

156.17.l86

ISO 9000 Series standards

156.17.S59

Six Sigma

Inspection

156.2

General works

156.25

Grading

156.4

Acceptance sampling

156.6

Quality assurance

156.8

Process control

Cf. TP155.75 Chemical process control

Production control

Cf. HF5415.2 Market research

Cf. TS176+ Production planning

157.A1

Periodicals, societies, etc.

157.A2-Z

General works

157.4

Just-in-time systems

Scheduling

Cf. HD69.T54 Industrial management

157.5

General works

157.7

Gantt charts

158

Critical path analysis

158.2

PERT

158.4

Line of balance technique

158.6

Automatic data collection systems

Inventory control

Cf. HD39.5 Industrial procurement

Cf. HD40 Inventory policy

Cf. HD40.7 Surplus property

Cf. HF5484+ Warehousing and storage

160

General works

161

Materials management. Industrial ecology

162

Economic lot size. Economic order quantity

163

Stockkeeping

Cf. TS189.6 Storerooms. Warehouses

Cost control

Cf. HD47.3 Economics

Cf. TA177.4+ Engineering economy

165

General works

- Production management. Operations management
- Control of production systems
  - Cost control -- Continued
  - 166 Estimating
  - 167 Manufacturing costs
  - (167.5) Break-even point
    - see HD47.25
  - 168 Value analysis. Value engineering
  - 169 Waste control
- Product engineering
  - Cf. T59+ Standardization
  - Cf. TS195+ Packaging
- 170 General works
- Industrial research see T175+
- 170.5 Environmental aspects
- Product design. Industrial design
- 171.A1 Periodicals, societies, congresses, etc.
- Museums, exhibitions of local societies see T179+
- Exhibitions, national and international see T391+
- Special countries and designers see TS21+
- 171.A5-Z General works
- 171.4 General special
- 171.44 Study and teaching. Schools
- 171.57 Makerspaces
- 171.6 Pictorial works
- 171.8 Prototyping
- 171.9 Statistical methods
- 171.95 Three-dimensional printing
- 172 Tolerances
  - Cf. T50 Technical measurement
- 173 Reliability of industrial products
  - Cf. TA169+ Systems reliability
- 174 Maintainability
- 175 Product safety. Safety of consumer products
  - Cf. T55+ Industrial safety. Industrial accident prevention
  - Cf. TA169.7 System safety
- 175.5 Product testing
- Manufacturing engineering. Process engineering
  - Including manufacturing planning, production planning
  - Cf. HD58 Plant location
- 176 General works
- 177 Plant design. Factory planning
- 177.3 Plant size. Factory size
- Plant layout
  - General works
- 178 General works
- 178.2 Batch production

|           |   |
|-----------|---|
|           | Production management. Operations management  |
|           | Manufacturing engineering. Process engineering  |
|           | Plant layout -- Continued   |
|           | Production lines. Assembly line processes   |
| 178.4     | General works   |
| 178.5     | Line balancing  |
| 178.7     | Operation sequence analysis   |
|           | Materials handling  |
| 180       | General works   |
| 180.3     | Machinery   |
| 180.5     | Loading and unloading   |
|           | In-plant transportation   |
| 180.6     | General works   |
| 180.8.A-Z | Special materials, A-Z  |
| 180.8.B8  | Bulk solids   |
|           | Planning for machinery. Equipment analysis  |
|           | Cf. TS191.3 Installation of machinery   |
| 181       | General works   |
| 181.3     | Selection   |
| 181.4     | Tool life   |
| 181.6     | Replacement   |
|           | Manufacturing processes   |
|           | Cf. TJ1180+ Tool engineering  |
| 183       | General works   |
|           | Process planning  |
| 183.3     | General works   |
| 183.6     | Make-or-buy decisions   |
| 183.8     | Remanufacturing   |
|           | Plant engineering   |
|           | Cf. T55+ Plant safety   |
|           | Cf. T59.77 Working environment  |
|           | Cf. TD895+ Factory sanitation   |
|           | Cf. TD896+ Factory waste disposal   |
|           | Cf. TH9445.M4+ Fire prevention in factories   |
|           | Cf. TH9745.F3 Plant protection  |
| 184       | General works   |
| 186       | Factory buildings. Industrial buildings   |
|           | Cf. NA6396+ Architecture  |
|           | Cf. TH4511+ Factory construction  |
| 187       | Plant utilities   |
|           | For specific utilities, see the utility, e.g. TH7392.M6 Heating<br>of mills and factories |
| 188       | Employee facilities and buildings   |
|           | Plant service facilities  |
| 189       | General works   |
| 189.3     | Toolrooms and cribs   |
| 189.6     | Storerooms. Storage facilities. Warehouses  |

## Production management. Operations management

## Plant engineering -- Continued

## Plant grounds

190 General works

190.5 Industrial landscape architecture

## Machinery and equipment

191 General works

191.3 Installation

191.6 Catalogs

191.8 Industrial robots

Cf. TJ210.2+ Robots (General)

192 Plant maintenance

193 Plant housekeeping

194 Plant performance monitoring

## Packaging

For packaging of special products, see the product, e.g. TP374

## Packaging of food

Cf. HF5770.A1+ Shipping of merchandise

Cf. TA1215 Containerization of freight

195.A1 Periodicals, societies, congresses, etc.

195.A2 Dictionaries and encyclopedias

195.A3 Directories

195.A4A-.A4Z Special companies. By name, A-Z

195.A5-Z General works

195.2 General special

195.4 Design

195.6 Standards and specifications

195.8 Testing

## Management

196 General works

196.2 Costs

196.4 Machinery

## Labeling

196.6 General works

196.7 Printing

197 Handling

197.5 Containers (General)

198.A-Z Special containers and packaging methods, A-Z

198.A3 Aerosols

198.B3 Bags

198.B6 Boxes

Cf. TS900 Box making

198.C3 Cans

198.C33 Capsules. Microencapsulation

198.C46 Child-resistant packaging

198.F55 Flexible packaging

198.I58 Insect-resistant packaging

## Packaging

Special containers and packaging methods, A-Z -- Continued

Microencapsulation see TS198.C33

198.P7

Pressure packaging

198.W7

Wrapping

## Materials

198.2

General works

198.3.A-Z

Special materials, A-Z

Prefer TS198

198.3.A3

Adhesives. Tapes

198.3.C6

Coatings

198.3.F5

Films. Foils

198.3.G5

Glass

198.3.M4

Metal (non-foil)

198.3.P3

Paper. Paperboard

198.3.P5

Plastics (non-foil)

Tapes see TS198.3.A3

198.3.T5

Textile fabrics

198.3.W6

Wood

## Packaging for protection from mechanical damage

Including packing for shipment

198.5

General works

198.6.A-Z

Special protective materials and shipping containers, A-Z

Prefer TS198

198.6.B3

Barrels

198.6.C6

Conex containers

198.6.C7

Crates

198.6.C8

Cushioning

198.6.D7

Drums

198.6.E9

Excelsior

198.6.P3

Pallets

## Packaging for protection from exposure to harmful environments

198.7

General works

198.8.A-Z

Special environments, A-Z

198.8.C6

Corrosion

198.8.F8

Fungi

198.8.M6

Moisture

199

## General catalogs

## Metal manufactures. Metalworking

Including metal forming and working

200

Periodicals, societies, etc.

203

Directories

204

Dictionaries and encyclopedias

205

General works

Cold working

207

General works

- Metal manufactures. Metalworking
- Cold working -- Continued
- 207.3.A-Z Special topics, A-Z
- 207.3.P44 Peening
- Including shot peening, glass shot peening, hammer peening, laser peening, water jet peening, etc.
- 209 Heating of metals
- Cf. TS325 Heating of steel
- 209.5 Hot working
- 210 Handbooks, tables, etc.
- 213 General special
- 214 Scrap metals
- 215 Metalworking machinery
- Cf. TJ1180+ Machine and hand tools
- Machining see TJ1180+
- Forging. Drop-forging
- Cf. TT218+ Blacksmithing
- 225 General works
- History
- 225.2.A1 General works
- 225.2.A5-Z By region or country, A-Z
- Joining of metals
- 226 General works
- Bonding (Metal finishing) see TS718
- Brazing (Handicrafts) see TT267
- Fasteners see TJ1320+
- Riveting (Iron and steel work) see TA891
- Riveting (Machine shop practice) see TJ1325
- Sealing (Machinery) see TJ246
- Soldering (Tinsmithing) see TS610
- Soldering (Handicrafts) see TT267
- Welding
- Cf. TA492.W4 Welded joints
- Cf. TT211 Welding in mechanical arts
- 227.A1 Periodicals, societies, etc.
- 227.A3-Z General works
- 227.2 General special
- 227.3 Hard-facing
- 227.4 Directories
- 227.5 Dictionaries and encyclopedias
- 227.55 Examinations, questions, etc.
- 227.6 Research
- 227.7 Vocational guidance
- 227.8 Safety measures
- Gas welding. Oxyacetylene welding
- 228.A1 Periodicals, societies, etc.
- 228.A2-Z General works

## Metal manufactures. Metalworking

## Joining of metals

## Welding

Gas welding. Oxyacetylene welding -- Continued

228.2 Oxygen cutting

228.3 Dissimilar welding

(228.4-.7) Electric welding, arc welding, resistance welding  
see TK4660(228.8) Electric cutting  
see TK4660.5

228.9 Pressure welding

228.92 Ultrasonic welding

228.95 Laser welding

228.96 Explosive welding

## Casting. Foundry work

Including general foundry work, and iron and steel founding

For the founding of other special metals see TS551+

For the founding of nonferrous metals see TS375

228.99 Periodicals, societies, etc.

229 Directories of foundries

229.3 Dictionaries and encyclopedias

## History

229.5.A1 General works

229.5.A5-Z By region or country, A-Z

230 General works

230.5 Addresses, essays, lectures

231 Cupola furnaces

Cf. TN715 Blast furnaces

233 General special

Including automation

234 Specifications

235 Handbooks, tables, etc.

236 Castings

237 Foundry equipment and supplies. Catalogs

238 Foundry management. Estimating, etc.

Including safety measures

239 Diecasting

240 Patternmaking

For patternmaking for sheet metals see TS250

For patternmaking for tin see TS600+

For patternmaking for copper see TS620+

## Molding. Coremaking

243 General works

243.5 Molding materials. Molding sand

245 Powder metallurgy processes and manufactures

Cf. TN695+ Metallurgy

247 Rapid solidification processing

## Metal manufactures. Metalworking -- Continued

- 248 Semisolid processing
- 250 Sheet metalwork
  - For tinsmithing see TS600+
  - For coppersmithing see TS620+
- 253 Metal stamping
  - Including punch and die work, press-tool work, diemaking, etc.
  - Cf. TJ1255+ Punching machinery
- 255 Extrusion of metals
- 256 High energy forming
- 257 Explosive forming
- 260 Leaf metals
- Wiremaking
  - Cf. TS1787 Wire rope
- 270.A1 Periodicals, societies, etc.
- 270.A2-Z General works
- 271 Barbed wire
  - Cf. S790+ Fences
- 273 Wire screens
  - Cf. TH2276 Screens
- 275 Sieves
- 277 Valves (General)
  - For special applications, see the field of application, e.g. TD491
  - Water distribution systems; TJ352+ Steam boiler safety valves; TL625.V3 Balloon valves
- Pipes and tubes
- 280 General works
- 282 Catalogs
- 283 Pressure vessels
  - Cf. TA660.T34 Tanks. Pressure vessels (Structural engineering)
- 285 General catalogs of metal manufactures
- Iron and steel
  - Cf. HD9510+ Economics
- 300 Periodicals, societies, etc.
- Exhibitions
- 300.5.A1 General works
- 300.5.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 301 Directories
- 302 Dictionaries and encyclopedias
- History see TN703
- Special countries
  - Cf. TN704.A+ Metallurgy
- United States
- 303 General works
- 303.5 Biography



|           |   |
|-----------|---|
|           | Metal manufactures. Metalworking                  |
|           | Iron and steel                                    |
|           | Special countries -- Continued                    |
| 304.A-Z   | Other countries, A-Z                              |
| 305       | General works                                     |
| 307       | General special                                   |
|           | Including patents                                 |
| 309       | Catalogs  |
|           | Specifications see TA466                          |
| 320       | Steelworking. Tool steel                          |
| 325       | Heating of steel                                  |
| 330       | Steel plants                                      |
|           | Including technical descriptions, histories, etc. |
| 330.A1    | Collective  |
| 330.A2-Z  | Individual, A-Z                                   |
| 340       | Rolling of metals. Rolling mills and machinery    |
| 350       | Structural iron and steel                         |
|           | Cf. TA685 Pocketbooks, tables, etc.               |
| 360       | Sheet iron and steel                              |
|           | Steel pens see TS1263                             |
|           | Nonferrous metals (General)                       |
| 370.A1    | Periodicals, societies, etc.                      |
| 370.A2-Z  | General works                                     |
| 371       | General special                                   |
| 372       | Catalogs  |
| 375       | Founding. Casting                                 |
|           | Special plants                                    |
| 377.A1    | Collective  |
| 377.A2-Z  | Individual, A-Z                                   |
|           | Cutlery   |
| 380       | General works                                     |
|           | Biography   |
| 380.3     | Collective  |
| 380.4.A-Z | Individual, A-Z                                   |
| 381       | Scissors and shears (Hand)                        |
|           | Hardware  |
|           | Cf. HD9745 Economics                              |
|           | Cf. TH5618 Carpenters' tools                      |
|           | Cf. TH6299 Plumbers' tools                        |
|           | Periodicals see TS200                             |
| 400       | General works                                     |
| 403       | Directories                                       |
| 405       | Catalogs  |
| 408       | Furniture   |
|           | Including steel, iron, other metal                |
|           | Cf. TS879.2+ Lumber and woodwork                  |
| 410       | Scales (Weighing instruments)                     |

## Metal manufactures. Metalworking -- Continued

- 420 Safes
  - Cf. TH9735 Security in buildings
- 425 Stoves and ranges
  - Cf. TX657.S3+ Home economics
- Miscellaneous articles of iron and steel
  - Including chains, nails, etc.
- 440 General works
- 445 Catalogs
- Instrument manufacture
  - Cf. Q184+ Scientific instruments and apparatus
  - Cf. TA165 Engineering instruments
- 500 General works
- Optical instruments
- 510 Periodicals, societies, congresses, etc.
- 511.A-Z By region or country, A-Z
  - Subarrange each country by Table T4a
- 512.A-Z Special companies, A-Z
- 513 General works
- 514 General special
- 515 Standards and specifications
- 516 Catalogs
- 517 Preparation of optical surfaces
  - Including grinding and polishing
- 517.2 Optical coatings
- Lenses
- 517.3 General works
- 517.5.A-Z Special types of lenses, A-Z
- 517.5.A86 Aspheric lenses
- 517.5.C38 Catadioptric systems
- Mirror lenses see TS517.5.C38
- 517.5.P5 Plastic lenses
- 518 Liquid crystal devices
- Locksmithing
  - Cf. TH9737 Building protection equipment
- 519 Periodicals, societies, etc.
- 519.5 History
- 520 General works
- 521 General special
- 525 Lock picking
- 529 Catalogs of locks
- 530 Catalogs of keys
- 531 Handcuffs and other metal restraints
- 531.5 Padlocks
- Firearms. Guns
  - Cf. NK6900+ Decorative arts
- 532 Periodicals, societies, etc.

- Metal manufactures. Metalworking
- Firearms. Guns -- Continued
- 532.15 Dictionaries and encyclopedias
- Museums. Exhibitions
- 532.2.A1 General works
- 532.2.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 532.4 Collectors and collecting
- History
- 533 General works
- Special countries
  - United States
    - 533.2 General works
  - 533.3.A-.W By state, A-W
  - 533.4.A-Z Other regions or countries, A-Z
- Biography
- 533.6 Collective
- 533.62.A-Z Individual, A-Z
- 534 General works
- 534.5 General special
- 534.7 Catalogs
- Gunsmithing
  - Cf. HD9743 Economics
  - Cf. SK274+ Hunting
  - Cf. UD380+ Military rifles, etc.
- 535 General works
- 535.2.A-Z Special features and equipment, A-Z
- 535.2.G8 Gunstocks
- 535.2.H64 Holsters
- 535.2.L6 Locks
- 535.2.S46 Sights
  - For telescopic sights see TS535.2.T4
- 535.2.S5 Silencers
- 535.2.T4 Telescopic sights
- 535.4 Maintenance and repair
- 535.8 Muzzle-loading firearms
  - Cf. TS536.6.M8 Rifles
- Types of guns
- 536 Repeating firearms
- Rifles
  - 536.4 General works
  - 536.6.A-Z Special types, A-Z
    - 536.6.B6 Bolt action
    - 536.6.B76 Browning rifles
      - Cf. UD395.B8 Browning automatic rifle
    - 536.6.F34 Falling block
    - 536.6.G37 Garand rifle

## Metal manufactures. Metalworking

## Firearms. Guns

## Types of guns

## Rifles

## Special types, A-Z -- Continued

536.6.K4

Kentucky rifle

536.6.L48

Leveraction

536.6.M8

Muzzle-loading

536.6.R44

Remington rifles

536.6.R84

Ruger rifle

536.6.S3

Schuetzen rifles

536.6.S5

Single shot

536.6.S64

Spencer rifle

536.6.W55

Winchester rifle

536.8

Shotguns

536.9

Submachine guns

537

Handguns

Including pistols and revolvers

537.5

Air guns

## Ammunition

Cf. UF700 Military science

538

General works

538.3

Handloading

538.4

Pinfire

538.5

Tear gas munitions

## Watches and clocks

Cf. HD9999.C58+ Economics

Cf. NK7480+ Decorative art

540

Periodicals, societies, etc.

540.7

Dictionaries and encyclopedias

## Museums. Exhibitions

541.A1

General works

541.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

## History

542

General works

542.5

Juvenile works

543.A-Z

By region or country, A-Z

543.5.A-Z

Special clocks. By place, A-Z

544

Standard clock systems. Electric clocks

544.5

Specifications

544.8.A-Z

Biography, A-Z

545

General works

545.8

Study and teaching. Schools

545.9

Vocational guidance

546

Watchmakers' lathes and other machinery

547

Repairing and adjusting

- Metal manufactures. Metalworking  
Watches and clocks -- Continued
- 548       General special  
            Including testing, reading the clock
- 549       Catalogs  
            Sundials see QB215
- Light metals
- 551       Periodicals, societies, etc.
- 552       General works
- Aluminum
- Cf. TN775 Metallurgy
- 554       Periodicals, societies, etc.
- 555       General works
- 556       Aluminum plants
- 557       Catalogs
- 560       Magnesium
- 562       Titanium
- Brass and bronze
- 564       Periodicals, societies, etc.
- 565       General works
- 570       Bronze
- 573       Catalogs
- Bells
- For history and antiquities see CC200+
- General works
- 583       Early to 1800
- 585       1800-
- 588       General catalogs, etc.  
            For lists of the products of individual foundries and  
            makers see CC206.A+
- 589       Doorbells  
            Cf. TK7108+ Electric bells
- Tinplate
- Cf. HD9539.T5+ Economics
- 590       General works
- 597       Tables, calculations, etc.  
            Cf. HF5716.T4 Economics
- 599       Catalogs
- Tinsmithing
- Cf. TT266+ Handicraft
- 600       General works
- 610       Soldering
- 619       Tinware and tinsmiths' supplies
- Coppersmithing. Copper founding
- 620       General works
- 625       Catalogs
- 640       Zinc

## Metal manufactures. Metalworking -- Continued

|          |   |
|----------|---|
| 650      | Alloys  |
|          | Cf. TA483+ General properties of alloys         |
|          | Cf. TN689+ Metallography                        |
|          | Metal finishing and surface treatment (General) |
|          | Cf. TT382+ Handicrafts                          |
| 653.A1   | Periodicals, societies, etc.                    |
| 653.A2-Z | General works                                   |
| 653.5    | General special                                 |
|          | Including safety measures                       |
| 654      | Cleaning and pickling                           |
| 654.5    | Electrolytic polishing                          |
| 655      | Metallizing. Metal spraying                     |
| 657      | Calorizing                                      |
| 660      | Galvanizing and tinning                         |
| 662      | Electroless plating                             |
|          | Electroplating. Electrometallurgy               |
| 670.A1   | Periodicals, societies, etc.                    |
| 670.A2-Z | General works                                   |
| 671      | Pulse plating                                   |
| 672      | Plating baths                                   |
| 675      | Electroplated ware. Catalogs                    |
| 678      | Gold plating                                    |
| 680      | Silver plating                                  |
| 690      | Nickel plating                                  |
| 692.A-Z  | Other metals, A-Z                               |
| 692.A5   | Aluminum  |
| 692.C18  | Cadmium   |
| 692.C4   | Chromium  |
| 692.C57  | Cobalt  |
| 692.C6   | Copper  |
| 692.I7   | Iron  |
| 692.P55  | Platinum  |
| 692.P56  | Platinum group                                  |
| 692.R5   | Rhodium   |
| 692.T5   | Titanium  |
| 692.T8   | Tungsten  |
| 692.Z5   | Zinc  |
| 693      | Alloys  |
|          | Anodic oxidation                                |
| 694      | General works                                   |
| 694.2    | Aluminum  |
|          | Vapor-plating. Chemical vapor deposition        |
| 695      | General works                                   |
| 695.15   | Plasma-enhanced chemical vapor deposition       |
| 695.2    | Ion plating                                     |
| 695.25   | Ion implantation                                |

## Metal manufactures. Metalworking

## Metal finishing and surface treatment (General) -- Continued

|       |  |
|-------|--|
| 695.3 | Boriding   |
| 695.5 | Siliconizing   |
| 695.7 | Sulfonitriding   |
| 695.9 | Refractory coating   |
| 696   | Phosphate coating  |
| 698   | Painting and lacquering                                    |
| 699   | Powder coating   |
|       | Enameling  |
|       | Cf. TT382.6 Handicrafts                                    |
| 700   | General works  |
| 705   | Catalogs of enameled ware                                  |
| 710   | Coloring   |
| 715   | Gilding. Silvering. Bronzing                               |
|       | Cf. TT380 Mechanic trades                                  |
| 718   | Bonding  |
|       | Including rubber to metal bonding                          |
| 719   | Printing   |
|       | Precious metals. Gold and silver work. Jewelry             |
|       | Cf. HD9536 Economics                                       |
|       | Cf. NK7100+ Decorative art                                 |
|       | Cf. NK7210 Hallmarks                                       |
| 720   | Periodicals, societies, etc.                               |
| 722   | Dictionaries and encyclopedias                             |
| 723   | History  |
| 725   | General works  |
| 729   | General special  |
|       | Including alloys, tables, calculations, recovery of wastes |
|       | Silversmithing   |
| 730   | General works  |
| 735   | Silverware, etc. Catalogs                                  |
|       | Jewelry  |
|       | Cf. HD9747 Jewelry industry                                |
|       | Cf. TS759 Jewelers' catalogs                               |
|       | Cf. TS760 Jewelers' supplies                               |
|       | Cf. TT212 Jewelry craft                                    |
| 740   | General works  |
|       | Precious stones. Gems                                      |
|       | Biography  |
| 747   | Collective   |
| 748   | Individual, A-Z  |
|       | General works  |
| 750   | Early to 1800  |
| 752   | 1800-  |
| 752.5 | Gem cutting  |
|       | Special  |

Metal manufactures. Metalworking  
 Precious metals. Gold and silver work. Jewelry  
 Jewelry  
 Precious stones. Gems  
 Special -- Continued  
 Diamonds  
 General works  
 Diamond cutting  
 Other special, A-Z  
 Amber  
 Emeralds  
 Jade  
 Opals  
 Pearls  
 General works  
 Cultured pearls  
 Rubies  
 Turquoise  
 General special  
 Trade publications  
 Directories  
 Jewelers' catalogs  
 Jewelers' supplies  
 Emblems, badges, etc.  
 Platinum  
 Stonework  
 Cf. NK8700+ Decorative arts  
 General works  
 Monuments, tombstones, tablets, etc.  
 Glass manufacture see TP845+  
 Plastic manufactures see TP1101+  
 Wood technology. Lumber  
 Cf. HD9750+ Economics  
 Cf. SD1+ Forestry  
 Cf. TA419+ Engineering materials  
 Periodicals  
 Societies  
 Congresses  
 Directories  
 Dictionaries and encyclopedias  
 History  
 United States  
 General works  
 Special states, A-W  
 Other countries, A-Z  
 Special corporations, mills, etc., A-Z  
 General works

753  
 753.5  
 755.A-Z  
 755.A5  
 755.E5  
 755.J34  
 755.O73  
  
 755.P3  
 755.P4  
 755.R82  
 755.T8  
 756  
 757  
 758  
 759  
 760  
 761  
 770  
  
 780  
 788  
  
 800  
 801  
 802  
 803  
 804  
  
 805  
 806.A-.W  
 810.A-Z  
 815.A-Z  
 820



## Wood technology. Lumber -- Continued

- 821 Juvenile works
- 825 Inspection, grading, etc. Handbooks
- 835 General special
  - Including utilization, handling, standards, etc.
- 836 Catalogs
- 837 Drying of lumber. Lumber kilns. Seasoning
- Lumberyards and sheds see TH4485
- Wood products. Furniture
  - Including industrial woodworking
  - Cf. HD9773 Economics
  - Cf. TT180+ Arts and crafts
- 840 Periodicals, societies, etc.
- 842 Directories
- History and special countries see TS805+
- 843 General works
- 847 Tables, calculations, etc.
- 850 Machinery. Sawmills. Planing mills
- 851 Care of saws, saw sharpening, etc.
  - Cf. TJ1235 Saw sharpening, etc.
- 852 General special
- 853 Catalogs
- 857 Bonding. Wood adhesives
- 858 Formaldehyde release
- 868 Compressed wood
- 869 Laminated wood
- 870 Veneers and veneering. Plywood
- 875 Fiberboard, particle board, etc.
  - Cf. TH1555 Fiberboard
- 878 Millwork. Planing-mill products
  - Cf. TH1151+ Architectural woodwork
- Furniture
  - Cf. NK2200+ Decorative arts
  - Cf. TP1185.F8 Plastic furniture
  - Cf. TS408 Metal furniture
  - Cf. TT194+ Arts and crafts
- Periodicals see TS840
- 880 General works
- Juvenile works see TS821
- Exhibitions
  - General works
  - By region or country, A-Z
    - Subarrange each country by Table T4b
- Directories see TS842
- 885 General special
- 886 Finishing
  - Cf. TT199.4 Handicrafts

- Wood technology. Lumber
- Wood products. Furniture
- Furniture -- Continued
- 886.5.A-Z Special types of furniture, A-Z
- 886.5.B4 Beds and bedsteads
- 886.5.C45 Chairs
  - Including rocking chairs
- 886.5.C74 Cribs
- 886.5.T3 Tables
- 887 Catalogs
- 889 Fixtures for stores, etc.
- 890 Cooperage. Barrels. Staves
- 900 Box making
  - Cf. TS198.B6 Packaging
- 903 Miscellaneous manufactures of wood
- 905 General catalogs of woodwork
- 908 Cork industry
  - Cf. TP659.A1+ Bottling
- 910 Willowware. Basketmaking
  - Cf. NK3649.5+ Decorative arts
  - Cf. TT879.B3 Handicrafts
- 913 Miscellaneous hand-woven products
  - Including baskets, trays, lampshades, etc.
- 915 Wire-grass industry
  - Including Crex Carpet Company products
  - Cf. TS1747+ Fiber industries
- Chemical processing of wood
  - Including wood from trees and other woody plants
- 920 Periodicals. Societies. Collections
- 921 Congresses
- 922 Dictionaries and encyclopedias
- Special countries
- 924 United States
- 926.A-Z Other countries, A-Z
- 928 General works
- 930 General special
- Wood composition and chemistry
- 932 General works
- 933.A-Z Individual components, A-Z
- 933.C4 Cellulose
- 933.L5 Lignin
- 933.S2 Salt
- 934.A-Z Chemical properties of individual timbers and woods, A-Z
- 936 Processing methods
  - Cf. TP997 Destructive distillation of wood
- 937 Management
- 937.2 Special products

- Chemical processing of wood
  - Special products -- Continued
    - Charcoal see TP331
    - Fiberboard, particle board, etc. see TS875
    - Paper see TS1080+
    - Rayon see TS1544.R3
    - Tannins see TS985
    - Turpentine see TP977+
    - Woodpulp see TS1171+
- Leather industries. Tanning
  - Cf. HD9780 Economics
  - Cf. TT290 Handicraft
- 940 Periodicals, societies, etc.
- Exhibitions
  - 943.A1 General works
  - 943.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 945 Directories
- 947 Dictionaries and encyclopedias
- History
  - 950 General works
  - 951 Origins
  - 952 Medieval
  - 954 Modern
  - Special regions or countries
    - United States
      - 955 General works
    - 956.A-W States, A-W
    - 957.A-Z Europe, A-Z
    - 959.A-Z Other regions or countries, A-Z
- 965 General works
- 965.5 Juvenile works
- 967 General special
  - Including chemistry, testing, hides and skins
- 968 Study and teaching. Schools
- 970 Patent leather
- 980.A-Z Other special kinds of leather, A-Z
  - 980.B82 Buckskin
  - 980.R8 Russia leather
  - 980.S6 Sole leather
  - 980.U6 Upholstery leather
  - 980.U7 Uppers
  - 980.V6 Vici kid
- 985 Tanning materials. Tannins
- 986 Dyes and dyeing

## Leather industries. Tanning -- Continued

## Boot and shoemaking

For local see TS955+

Cf. HD9787 Economics

Cf. TT678.5 Handicraft

989

Periodicals, societies, etc.

Directories see TS945

Dictionaries see TS947

990

General works

1000

History

Cf. GT2130 Footwear (Costume)

1005

Machinery

1007

Finishing processes

1015

Hygienic shoes

Cf. RD757.S45 Orthopedic shoes

1017

Athletic shoes

1020

General special

Repairing

1023.A1

Periodicals, societies, etc.

1023.A2-Z

General works

1025

Catalogs

## Harness. Saddles

1030

Periodicals, societies, etc.

1032

General works

1033

Catalogs

1035

Saddlery hardware. Harness hardware

Including catalogs

1040

## Other kinds of leatherwork

For luggage see TS2301.L8

Cf. NK6200+ Leather (Decorative arts)

1043

## Leatherwork machinery. Catalogs

## Imitation leathers

1045

General works

1047.A-Z

Special, A-Z

1050

## Articles of horn, ivory, bone, etc.

Cf. NK5800+ Ivory (Decorative art)

Cf. NK6020+ Horn and bone (Decorative art)

Cf. TT288 Bone and horn craft

## Furs

Cf. HD9944 Economics

Cf. TT525 Fur garments

1060

Periodicals, societies, etc.

1061

General works

1063

Quality control, grading, etc.

1066

Directories

1067

Catalogs

1070

Artificial fur

- Animal fibers see TS1545+
- Paper manufacture and trade
  - Cf. HD9820+ Economics
  - Cf. Z45 Writing instruments, including paper
  - Cf. Z112 Paleography materials
  - Cf. Z237 Watermarks
  - Cf. Z247 Practical printing
- 1080 Periodicals, societies, congresses, etc.
- Exhibitions
  - 1083.A1 General works
  - 1083.A2-Z By region or country, A-Z
    - Subarrange each country by Table T4b
- 1085 Dictionaries and encyclopedias
- 1088 Directories
- History
  - 1090 General works
  - Ancient (Papyrus, etc.) see Z105+
  - 1091 Origins (Arab, Chinese, etc.)
  - Medieval
    - 1092 General works
    - 1093.A-Z Special countries, A-Z
  - Modern
    - 1094 General works
    - 1095.A-Z Special countries, A-Z
    - 1096.A-Z Special companies, A-Z
      - Cf. TS1210+ Catalogs
    - 1098.A-Z Biography, A-Z
- General works
  - 1104 Early to 1800
  - 1105 1800-
  - 1105.5 Juvenile works
  - 1107 Quality control
  - 1109 General special
    - Including testing, waste prevention, use of cornstalks, hemp, etc.
  - 1111 Study and teaching. Schools
  - 1115 Watermarks, trademarks, etc. (Modern)
    - Cf. Z237 Watermarks of early printers
  - Papermills and their management
    - 1116 General works
    - 1116.2 Water supply
    - 1116.6 Paper handling. Transportation
    - Machinery
      - 1117 General works
      - 1117.6 Automation
    - 1118.A-Z Special manufacturing processes and equipment, A-Z
    - 1118.C34 Calenders and calendering

## Paper manufacture and trade

## Special manufacturing processes and equipment, A-Z --

## Continued

Coloring see TS1118.D9

1118.C8 Cutting and cutting machinery

1118.D42 Deacidification

1118.D7 Drying and drying machinery

1118.D9 Dyes and dyeing. Coloring

1118.F4 Felts

1118.F5 Finishing. Coatings

Folding see Z261

1118.P74 Pressing

1118.P85 Pulp consistency transmitters

1118.R4 Refining

1118.S5 Sizing

1118.S85 Stock preparation

1120 Chemistry of paper manufacture

1120.5 Paper recycling

1121 Paper characteristics, properties, etc.

## Paper types. Special papers

1124 General works

1124.5 Handmade

1125 Papyrus

Cf. Z45 Calligraphy materials

Cf. Z112 History of writing

1129 Korean paper

1130 Japanese paper

(1130.2) Marbled papers

see Z271.3.M37

## Paperboard

Including cardboard, pasteboard

1135 General works

1138 Corrugated paperboard

1155 Papier mâché

Cf. TT871 Papier-mâché craft

1160 Newsprint

1165 Parchment

1167 Reproduction paper

1168 Tissue paper

1169 Xuan zhi

## Woodpulp industry. Pulping processes

Cf. HD9750+ Economics

1171 Periodicals, societies, congresses, etc.

1172 Annuals. Directories

1173 United States

1174.A-Z Other countries, A-Z

1175 General works

## Paper manufacture and trade

## Woodpulp industry. Pulping processes -- Continued

- 1176 General special
- 1176.4.A-Z Special pulps, A-Z
  - 1176.4.A8 Aspen
  - 1176.4.B3 Bamboo
  - 1176.4.E9 Eucalyptus
  - 1176.4.H3 Hardwoods
  - 1176.4.K44 Kenaf
  - 1176.4.L3 Larch
  - 1176.4.P5 Pine
  - 1176.4.S7 Spruce
  - 1176.4.T7 Tropical woods
- 1176.6.A-Z Special aspects, A-Z
  - 1176.6.A5 Analysis of pulp
  - 1176.6.B56 Biotechnology
  - 1176.6.B6 Bleaching of pulp
  - 1176.6.E7 Equipment and supplies
  - Kraft processes see TS1176.6.S9
  - 1176.6.M4 Mechanical process
  - 1176.6.S5 Smelt-water explosions
  - 1176.6.S6 Soda process
  - 1176.6.S9 Sulfate process
  - 1176.6.S915 Sulfate waste liquor
  - 1176.6.S92 Sulfite liquor
  - 1176.6.S93 Sulfite process
  - 1176.6.T4 Testing of pulp
  - 1176.6.W36 Washing
  - 1176.6.W6 Wood chips
- 1177 Articles manufactured from woodpulp
  - Cf. TS1155 Papier mâché
- Artificial flowers see TT890+
- Other articles of paper
  - Including bags, paper boxes, etc.
  - For folding and folding machinery see Z261
- 1200.A1 Periodicals, societies, etc.
- 1200.A2-Z General works
- Catalogs of paper and pulp mill equipment and supplies
  - Including bags, paper boxes, etc.
- 1205.A1 Periodicals, societies, etc.
- 1205.A2-Z General works
- Catalogs of paper manufacturers
  - Cf. TS1090+ History
- 1210 General works
- 1220 Sample books
- Stationery
- 1228 Periodicals, societies, etc.

- Paper manufacture and trade
  - Stationery -- Continued
    - Directories see TS1088
  - (1229) Biography
    - see TS1098
  - 1230 General works
  - 1233 General special
    - Including history and antiquities
  - 1238 Trade publications other than catalogs
  - 1240 Catalogs
  - 1250 Blank books
  - 1251 Copybooks
  - 1260 Ruling-machinery
  - Pens
    - Including catalogs
  - 1262 General works
  - 1263 Steel pens
  - 1265 Gold pens
  - 1266 Fountain pens
  - 1267 Ball-point pens
  - 1268 Pencils
- Textile industries
  - Cf. HD9850+ Economics
  - Cf. SB241+ Fiber plant culture
  - 1300 Periodicals. Societies. Congresses
  - (1301) Yearbooks
    - see TS1300
  - Museums. Exhibitions
    - General works
    - 1306.A1 By region or country, A-Z
      - Subarrange each country by Table T4b
    - 1306.A2-Z
  - 1309 Dictionaries and encyclopedias
  - 1312 Directories
  - History
    - General works
    - 1316 Ancient
    - 1317 Medieval
    - 1318 Modern
  - 1321-1424.5 Special countries (Table T1b)
    - Add country number in table to TS1300
  - 1425.A-Z Special corporations, mills, etc., A-Z
  - Biography
    - Collective
    - 1439 Individual, A-Z
  - General works
    - 1444 Early to 1800
    - 1445 1800-



## Textile industries -- Continued

- 1446 Elementary works
- 1449 General special
  - Including microscopy, testing, safety measures, yarn
- 1450 Standardization
  - Including thread numbers
- 1450.5 Production standards
- 1451 Handbooks, tables, etc.
- 1463 Vocational guidance
- Study and teaching
- 1465 General works
- 1465.5 Problems, exercises, etc.
  - By region or country
    - For individual institutions, see the state or country without further subdivision
  - United States
    - General works
    - By region or state, A-Z
    - Other regions or countries, A-Z
- 1471 Information services
- 1472.A-Z Textile chemistry
  - Cf. TP890+ Bleaching, dyeing, printing of textiles (Chemical technology)
- 1473.A-Z
- 1474
- 1474.5
- 1475 Textile design
  - Cf. NK8800+ Decorative arts
  - Cf. TT851+ Textile decoration (Arts and crafts)
- Spinning
  - Including preliminary processes
  - Cf. TS1577 Cotton spinning
  - Cf. TS1628 Woolen spinning
  - Cf. TS1727 Hand spinning
- 1480 General works
- 1483 Machinery
- 1484 Spinning wheel, distaff, etc.
  - Carding and combing
    - Cf. TS1578 Cotton carding
    - Cf. TS1628 Wool carding
    - Cf. TS1727 Flax spinning
- 1485 General works
- 1487 Machinery
- 1487.5 Twisting and twisting machinery
- 1487.7 Crimping
- Sizing
- 1488 General works
  - Cotton sizing see TS1580
- Weaving (Industrial)
  - Cf. TT848+ Hand weaving

## Textile industries

## Weaving (Industrial) -- Continued

- 1490 General works
- 1493 Machinery. Looms
- 1500 Jacquard weaving
  - Including jacquard looms
- 1510 Finishing
- 1511 Setting of textiles
- 1512 Coating of fabrics
- 1512.5 Electrostatic flocking
  - Cf. TS1828+ Nonwoven fabrics
- 1513 Crease-resisting process
- 1514 Drying. Drying equipment
- 1515 Mercerization
- 1517 Mothproofing
- 1520 Waterproofing
- Fireproofing see TP267
- 1525 Textile machinery (General)
- Textile mills (Design and construction) see TH4521
- Textile supplies
- 1529 General works
- 1530 Catalogs
- 1535 Directories
- Textile fibers
- 1540 General works
- Vegetable
- 1541 General works
- 1542 Cotton
- 1543 Linen
- 1544.A-Z Others, A-Z
  - 1544.A5 Ambary hemp. Kenaf
  - 1544.B3 Bast
  - 1544.C4 Cellulose
  - 1544.C6 Coconut fiber
  - 1544.H4 Hemp
    - Cf. TS1733 Hemp manufactures
  - Kenaf see TS1544.A5
  - 1544.M3 Marine fiber
  - 1544.P55 Piña cloth
  - 1544.R2 Ramie
    - Cf. SB259 Plant culture
  - 1544.R3 Rayon
    - Cf. TS1688.A1+ Rayon manufactures
- Animal
- 1545 General works
- 1546 Silk
- 1547 Wool

## Textile industries

## Textile fibers

## Animal -- Continued

1548.A-Z

## Others, A-Z

1548.C3

Camel's hair

1548.H6

Horsehair

1548.M6

Mohair

1548.V5

Vicuna

## Synthetic textile fibers

1548.2

Dictionaries and encyclopedias

1548.5

General works

1548.7.A-Z

Special, A-Z

1548.7.A25

Acrylic

1548.7.P57

Polyamide

1548.7.P58

Polyesters

1548.7.P6

Polypropylene

1548.7.P63

Polyurethanes

1548.7.V5

Vinyl

## Inorganic fibers

1549.A1

General works

1549.A3-Z

Special, A-Z

1549.A7

Asbestos

1549.G5

Glass

1549.G6

Gold

## Cotton manufactures

Cf. HD9870+ Economics

Cf. SB245+ Cotton culture

1550

Periodicals, societies, etc.

(1551)

Yearbooks

see TS1550

1555

Directories

Exhibitions

1557.A1

General works

1557.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

## History

1560

General works

1561

Ancient

1562

Medieval

1564

Modern

1565.A-Z

Special regions and countries, A-Z

1566.A-Z

Special companies. By name, A-Z

1570

Biography

1575

General works

1576

Elementary works

1577

Spinning

Including preliminary processes

## Textile industries

## Cotton manufactures -- Continued

- 1578 Carding. Combing. Lapping
- 1579 Weaving
- 1580 General special
  - Including finishing processes
- 1581 Handbooks, tables, calculations, etc.
- 1582 Cotton fabrics
- 1583 Cotton machinery
- 1585 Ginning, baling, etc.
- 1587 Cotton waste products

Cf. TP996.C75 Chemical technology

Cotton baling see TS1585

- 1590 Thread manufacture

## Woolen manufactures

Cf. HD9890+ Economics

Cf. SF371+ Sheep culture

- 1600 Periodicals, societies, etc.
- (1601) Yearbooks
  - see TS1600

- 1603 Directories

## Exhibitions

- 1606.A1 General works

- 1606.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b

## History

- 1610 General works
- 1611 Ancient
- 1612 Medieval
- 1614 Modern
- 1615.A-Z Special regions or countries, A-Z

- 1620 Biography

- 1625 General works

- 1626 Elementary works

## Spinning and other preliminary processes

- 1627 General works

- 1628 Carding. Combing

- 1629 Weaving

- 1630 General special

Including finishing processes, wool substitutes, etc.

- 1631 Handbooks, tables, calculations, etc.

- 1633 Woolen and worsted machinery

- 1634 Catalogs of woolen goods

- 1635 Artificial wool

## Silk manufactures

Cf. HD9910+ Economics

Cf. SF541+ Sericulture

## Textile industries

## Silk manufactures -- Continued

- 1640 Periodicals, societies, congresses, etc.
- (1641) Yearbooks
  - see TS1640
- 1643 Directories
- Exhibitions
- 1646.A1 General works
- 1646.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- History
  - 1650 General works
  - 1651 Ancient
  - 1652 Medieval
  - 1654 Modern
  - 1655.A-Z Special regions or countries, A-Z
- 1660 Biography
- 1665 General works
- 1667 Spinning and other preliminary processes
- 1669 General special
- 1671 Handbooks, tables, etc.
- 1672 Silk machinery
- 1673 Catalogs
- 1675 Velvets
- 1676 Brocade
- 1677 Crepe
- 1680 Plush
- 1687 Cords, trimmings, passementerie, gimp, braids, etc.
- Artificial silk. Rayon. Celanese
  - 1688.A1 Periodicals, societies, etc.
  - 1688.A2 Directories
  - 1688.A3-Z General works
- Flax, hemp and jute industries
  - Cf. TS1540+ Fibers
  - Cf. TS1784+ Cordage
  - Cf. TS1795 Twine
- 1700 Periodicals, societies, etc.
- 1705 General works
- 1707 Tables, calculations, etc.
- Flax industries. Linen, etc.
  - Cf. HD9930 Economics
- 1710 History
- 1715.A-Z Special regions or countries, A-Z
- 1725 General works
- 1727 Spinning and other preliminaries
- 1728 Machinery
- 1730 Tables, calculations, etc.

## Textile industries

## Flax, hemp and jute industries

Flax industries. Linen, etc. -- Continued

- 1731 Catalogs of linen goods
- 1733 Hemp industries
- 1735 Jute industries, burlap, etc.

## Other fiber industries

- 1747.A-Z Special, A-Z
- 1747.C6 Coir
- 1747.D3 Date palm fiber
- 1747.E8 Esparto
- 1747.H6 Horsehair
- 1747.K3 Kapok
- 1747.O3 Oakum
- 1747.R2 Raffia
- 1747.R3 Ramie
- 1747.R6 Roselle
- 1747.S5 Sisal
- 1747.S7 Straw plaiting
- Wire grass see TS915
- 1750 General special

## Textile fabrics. Dry goods

Cf. TT490+ Clothing manufacture

- 1760 Periodicals, societies, etc.
- 1763 Directories
- 1765 General works
- 1767 General special
- 1768 Catalogs
- 1770.A-Z Special kinds of fabrics, A-Z
- 1770.I53 Industrial fabrics
- 1770.S54 Sheer fabrics

Knit goods, hosiery, etc. see TT679+

## Carpets, rugs, etc.

Cf. NK2775+ Decorative art

- 1772 Periodicals, societies, etc.
- 1773 Directories
- Exhibitions

- 1774.A1 General works

- 1774.A2-Z By region or country, A-Z
- Subarrange each country by Table T4b

## History

- 1774.4 General works
- 1774.6.A-Z Special regions or countries, A-Z
- 1775 General works
- 1775.5 General special
- 1776 Catalogs, etc.

## Textile industries

## Carpets, rugs, etc. -- Continued

## Rugs

Cf. NK2775+ Art

1777

General works

1778

Oriental rugs

Cf. NK2808+ Art

1779.A-Z

Other floor coverings, A-Z

1779.G7

Grass rugs

1779.L5

Linoleum

1779.M2

Matting. Straw, etc.

1779.O5

Oilcloth

1779.5

Carpet measuring, cutting, laying, etc.

1780

## Tapestry

Cf. NK2975+ Art

Cf. TT849 Hand weaving

1781

## Miscellaneous textile articles and products

Including bagging, shawls, towels, etc.

For artificial fur see TS1070

For flags see TS2301.F6

1782

## Lace (Machine made)

Cf. HD9933 Trade

Cf. NK9400+ Decorative art

Cf. TT800+ Needlework

1782.5

## Braid (Machine made)

1783

## Embroidery (Machine made)

Cf. NK9200+ Decorative art

Cf. TT769+ Needlework

## Miscellaneous fiber products

## Cordage

1784

Periodicals, societies, etc.

1784.5

Directories

1785

General works

1787

Wire rope

1792

Sennit

1795

## Twine

(1825)

## Felt

see TS1830.F44

## Nonwoven fabrics

1828

General works

1830.A-Z

By type of nonwoven fabric, A-Z

1830.F44

Felt. Felting

1830.N44

Needlepunch

1850

## Other fiber products

1860

## Tent and awning making

1865

## Umbrellas and parasols

- Rubber industry
  - Cf. HD9161 Economics
  - Cf. SB289+ Agriculture
- 1870 Periodicals, societies, etc.
- 1871 Congresses
- Exhibitions
- 1872.A1 General works
- 1872.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 1875 Dictionaries and encyclopedias
- 1877 Directories
- History
  - 1880 General works
  - 1885.A-Z Special countries, A-Z
- 1890 General works
- 1891 Vulcanizing
- 1891.5 Machinery
- 1892 General special. Examination, testing, etc.
- 1893 Catalogs and other trade publications
- 1910 Rubber boots and shoes
- 1912 Rubber tires
- 1920 Other articles of rubber
  - Including hand stamps, rubber bands, tubes, etc.
- 1925 Synthetic rubber. Elastomers
- 1927.A-Z Special, A-Z
  - 1927.C92 Cyclized rubber
  - 1927.E86 Ethylene-propylene rubber
  - 1927.S55 Silicone rubber
- 1930 Gutta-percha
- 1935 Balata
- Miscellaneous industries
  - Animal products
    - Cf. SK283.8 Field dressing and skinning of game
  - 1950 Periodicals, societies, etc.
  - 1953 Dictionaries and encyclopedias
  - 1955 General works
  - Butchering. Slaughterhouses. Meat curing
    - Class here technical works only
    - For Judaism see BM720.S6+
    - Cf. HD9410+ Animal industry
    - Cf. RA578.A6 Slaughterhouses
  - 1960 General works
  - 1962 Minor works
  - Special countries
    - United States
      - 1963 General works
      - 1964.A-.W States, A-W



|           |   |
|-----------|---|
|           | Miscellaneous industries                  |
|           | Animal products                           |
|           | Butchering. Slaughterhouses. Meat curing  |
|           | Special countries                         |
|           | United States -- Continued                |
| 1965.A-Z  | Cities, A-Z                               |
| 1966.A-Z  | Other countries, A-Z                      |
| 1967.A-Z  | Other cities, A-Z                         |
| 1968      | Poultry processing                        |
|           | Fish processing see SH334.9+              |
|           | Furs see TS1060+                          |
|           | Leather see TS940+                        |
|           | Meat-packing industries                   |
|           | Cf. HD9410+ Economics                     |
|           | Cf. TS2284+ Pet food industry             |
| 1970      | General works                             |
| 1971.A-Z  | By region or country, A-Z                 |
|           | Subarrange each country by Table T4a      |
| 1973      | Packinghouse equipment, etc.              |
| 1974.A-Z  | Special topics, A-Z                       |
| 1974.B3   | Bacon                                     |
| 1974.C67  | Corned beef                               |
| 1974.F5   | Flavoring, seasoning, etc.                |
| 1974.S3   | Sausages                                  |
| 1975      | Meat inspection                           |
|           | Lard, tallow, etc.                        |
|           | Cf. TP669+ Oils, fats, and waxes          |
| 1980      | General works                             |
| 1981      | Rendering apparatus                       |
| 1982      | Bone products                             |
|           | Carriage and wagonmaking                  |
|           | Including sleighs and sleds               |
|           | Cf. HD9709.5 Economics                    |
| 2001      | Periodicals, societies, etc.              |
|           | Exhibitions. Museums                      |
| 2003.A1   | General works                             |
| 2003.A2-Z | By region or country, A-Z                 |
|           | Subarrange each country by Table T4b      |
| 2005      | Directories                               |
| 2010      | History                                   |
| 2020      | General works                             |
| 2025      | General special                           |
|           | Carriage painting                         |
|           | General works                             |
| 2030      | Scrolls and designs for carriage painters |
| 2032      | Catalogs of carriagemakers                |
| 2033      | Catalogs of carriagemakers                |
| 2035      | Carriage hardware                         |

## Miscellaneous industries

Carriage and wagonmaking -- Continued

Automobiles see TL1+

Cereals and grain. Milling industry

Including flour

Cf. HD9056 Economics

2120

Periodicals, societies, etc.

Exhibitions

2123.A1

General works

2123.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

2129

Directories

History

2130

General works

2135.A-Z

By region or country, A-Z

*Under each country:**.x**General works**.x2A-.x2Z**By state, province, etc., A-Z*

General works

2144

Early to 1800

2145

1800-

2149

General special

Including moisture in grain

2155

Catalogs

Cereal products see TP434+

Feeds and feed mills see TS2284+

2159.A-Z

Milling and processing of individual cereals, A-Z

2159.C2

Corn

2159.R5

Rice

2159.S65

Sorghum

Wheat see TS2120+

2160

Gloves

Cf. HD9947 Economics

Hats

Cf. HD9948 Economics

Cf. TT650+ Millinery

2180

Periodicals, societies, etc.

Exhibitions

2181.A1

General works

2181.A2-Z

By region or country, A-Z

Subarrange each country by Table T4b

2182

Directories

2185

General works

2190

General special

2193

Renovating, cleaning, etc.

Tobacco industry

Cf. HD9130+ Economics

## Miscellaneous industries

## Tobacco industry -- Continued

- 2220 Periodicals, societies, etc.
- 2225 Dictionaries and encyclopedias
- 2228 Directories
- History
- 2230 General works
- 2234 Modern
- 2235.A-Z Special places, A-Z
- 2240 General works
- 2249 General special
  - Including machinery, curing, testing, facts for smokers, enjoyment of smoking
- 2251 Tables, calculations, etc.
- 2255 Nicotine (Preparation, use, etc.)
- 2260 Cigars and cigarettes
- 2270 Pipes for smoking
- 2280 Smoking paraphernalia
  - Including lighters
- 2283 Catalogs of cigars, smoking paraphernalia, etc.
- Animal feeds and feed mills. Pet food industry
  - Cf. SF94.5+ Animal nutrition
  - Cf. SF414 Pet feeding
- 2284 Periodicals, societies, etc.
- 2285 Congresses
- 2286 General works
- 2286.5 General special
- 2287 Patents
- 2288.A-Z Special foods. Foods for special animals, A-Z
- 2288.C36 Cat food
- 2288.C45 Cereals
- 2288.D63 Dog food
- 2288.M4 Meat
- 2301.A-Z Other industries, A-Z
  - Class here primarily catalogs of wares, especially articles not made of any one material
- Audiovisual equipment
- 2301.A7 General works
  - Phonographs see TS2301.P3
  - Sound recording instruments see TS2301.S6
- Baggage see TS2301.L8
- 2301.B4 Beads
  - Cf. TT860 Beadwork
- 2301.B5 Belts
- 2301.B8 Brushes and brooms
- 2301.B9 Buttons
- 2301.C3 Canes

## Miscellaneous industries

## Other industries, A-Z -- Continued

|           |  |
|-----------|--|
| 2301.C4   | Catgut   |
| 2301.C5   | Church supplies                                      |
|           | Cf. NK1657 Trade catalogs, etc.                      |
| 2301.C75  | Combs  |
|           | Containers see TS195+                                |
| 2301.D4   | Decalcomania   |
|           | Dolls see TS2301.T7                                  |
| 2301.F4   | Feathers   |
| 2301.F6   | Flags, banners, etc.                                 |
| 2301.H7   | Hose   |
|           | Cf. TH9380 Firehose                                  |
| 2301.I6   | Insignia   |
| 2301.I8   | Isinglass  |
| 2301.L8   | Luggage  |
| 2301.M3   | Marking devices                                      |
| (2301.M8) | Monuments, tombstones, tables, etc.                  |
|           | see TS788  |
| 2301.N5   | Notions  |
| 2301.N55  | Novelties  |
| 2301.P2   | Page turners   |
| 2301.P24  | Palm products  |
| 2301.P3   | Phonographs  |
| 2301.P5   | Pins and needles                                     |
| 2301.S5   | Skates   |
| 2301.S6   | Sound recording instruments                          |
|           | Cf. TK7881.4+ Electronic sound systems               |
|           | Cf. TS2301.P3 Phonographs                            |
| 2301.S7   | Sporting goods                                       |
| 2301.T5   | Time stamps  |
| 2301.T7   | Toys, etc.   |
|           | Cf. GV1218.5+ Games and amusements                   |
|           | Cf. NK4891.3+ Dolls and dollhouses (Decorative arts) |
|           | Cf. NK9509+ Toys (Decorative arts)                   |
|           | Cf. TT174+ Handicrafts                               |
| 2301.T9   | Transfer pictures, etc.                              |
| 2301.U5   | Undertakers' supplies, etc.                          |
| 2301.W3   | Wax figures  |
| 2301.W5   | Window shades  |

- Handicrafts. Arts and crafts  
 Including mechanic trades  
 Cf. NK1+ Decorative arts  
 Cf. NK1135+ Arts and crafts movements  
 Cf. TH5011+ Building trades  
 Cf. TP1+ Industrial products (Chemical technology)  
 Cf. TS1+ Manufactures
- 1 Periodicals, societies, etc.  
 Exhibitions. Museums
- 6.A1 General works  
 6.A2-Z By region or country, A-Z  
     Subarrange each country by Table T4b
- 7 Collected works (nonserial)
- 9 Dictionaries and encyclopedias  
 Communication of handicraft information
- 10 General works
- 11 Computer network resources  
     Including the Internet
- 12 Directories
- 14 Philosophy. Theory. Relation to other topics
- 15-127 History and country divisions (Table T1)  
     Add country number in table to TT0  
     Class here general works on the crafts as practiced in particular  
     regions or countries. Also class here manuals on how to  
     duplicate craft articles of particular regions or countries,  
     including craft articles of particular ethnic groups. For  
     example, class manuals on duplicating crafts of the Indians of  
     North America in TT22  
     For ethnological works on the crafts as practiced by the ethnic  
     groups of particular regions, see GN575+ or the class  
     numbers for particular groups in classes D-F  
     For ethnological works about crafts of North American Indians,  
     see E98.I5
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- 144 Early to 1800
- 145 1800-
- 149 General special
- 150 Study and teaching
- 151 Mending and repairing  
     Cf. NK4233 Ceramics  
     Cf. TH4817+ Home maintenance and repair  
     Cf. TX323 Care of the home
- 152 Workshops: Planning and maintenance

- Workshop practice
  - Including use of workshop tools
- 153 General works
- 153.5 Power tools
- 153.7 Craft materials and supplies
- Models and modelmaking
  - Cf. TT178 Miniature crafts
- 154 General works
- 154.5 Radio control systems
- 155 Handbooks, manuals, etc.
- 157 Special crafts treated collectively
  - Including general works on craft projects and items to make
  - Cf. SF413.5 Craft items for pets
  - Cf. TT180+ Special crafts, by material
  - Cf. TT699+ Textile arts and crafts
  - Cf. TT855+ Decorative crafts
- Juvenile works. Projects for boys
  - Cf. TT171 Handicraft for girls
- 159 Periodicals, societies, etc.
- 160 General works
- Manual training. Industrial arts training. School shops
  - Cf. LB1594+ Industrial arts training in elementary schools
  - Cf. LC1081+ Industrial education (Theory)
  - Cf. LC2780.5 Industrial education of blacks and African Americans
  - Cf. T61+ Technology - Study and teaching
- 161 Periodicals, societies, etc.
- Exhibitions
- 162.A1 General works
- 162.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- 163 Directories
- 165 Textbooks
- 166.A-Z Special countries, A-Z
- 167.A-Z Special cities, A-Z
  - Including special schools
- Teaching methods
- 168 General works
- 169 General special
- School shops
- 170 General works
- 170.4 Safety measures
- 170.7 Equipment and supplies
  - Including catalogs
- 171 Handicrafts for girls
- Articles for children
  - Cf. TT197.5.C5 Children's furniture

## Articles for children -- Continued

## Toys

Cf. GV1218.5+ Games and amusements

Cf. LB1029.T6 Educational toys

Cf. NK9509+ Decorative arts

Cf. TS2301.T7 Toy manufacture

174

## General works

174.3

## Soft toys

174.5.A-Z

## Other special, A-Z

174.5.P3

## Paper toys

174.5.S35

## Scooters, skateboards, etc.

174.5.V43

## Vehicles

174.5.W6

## Wooden toys

174.7

## Puppets

For general works on puppetry, including manipulation of  
puppets, puppet plays, etc. see PN1972+

## Dolls

Including paper dolls

Cf. GV1218.5+ Games and amusements

Cf. NK4891.3+ Decorative arts

Cf. TS2301.T7 Doll manufacture

175

## General works

175.3

## Dollhouses

175.5

## Doll furniture

175.7

## Doll clothes

176

## Playground equipment

## Playhouses see TH4967

178

## Miniature craft

Cf. TT154+ Models and modelmaking

## Woodworking

Cf. TH5601+ Carpentry and joinery

Cf. TS840+ Manufactures of wood

180

## General works

185

## Elementary works, outline, syllabi, etc.

Including amateurs' manuals

185.5

## Woodshops

186

## Tools and supplies

Cf. TH5618 Carpentry tools

## Sloyd

187

## General works

Special schools see TT167.A+

188

## Models

189

## Balsa craft

190

## Bamboo work

190.5

## Cork craft

## Woodworking -- Continued

190.6

## Scrollwork

Including jigsaw work, boxes, and other articles made with  
scroll saws

For fretwork see NK9930

191

## Plywood working

192

## Marquetry

## Furniture

Cf. TP1185.F8 Plastic furniture manufacture

Cf. TS879.2+ Furniture manufacture

Cf. TT175.5 Doll furniture

Cf. TT213 Metal furniture

Cf. TT297.5 Plastic furniture craft

194

## General works

195

## Amateurs' manuals

196

## Furniture design. Drawings

197

## Box furniture. Cabinetwork

197.5.A-Z

## Special, A-Z

197.5.B3

## Bars

197.5.B4

## Bedroom furniture

197.5.B6

## Bookcases

197.5.B68

## Boxes

197.5.B8

## Built-in furniture

197.5.C45

## Chairs

197.5.C5

## Children's furniture

197.5.C62

## Coffins

197.5.C65

## Computer furniture

197.5.C68

## Countertops

197.5.D4

## Desks

197.5.D5

## Dining room furniture

197.5.E57

## Entertainment centers

197.5.K57

## Kitchen cabinets, kitchen furniture, etc.

197.5.L34

## Lamps. Lighting devices

Including candlesticks, chandeliers, sconces, etc.

Cf. TK9921 Electricity for amateurs

Cf. TT897.2 Decorative crafts

## Lighting devices see TT197.5.L34

197.5.L5

## Living room furniture

197.5.L6

## Loudspeaker cabinets

197.5.O9

## Outdoor furniture

197.5.T3

## Tables

197.5.T65

## Toolboxes

For wooden boxes in general see TT197.5.B68

197.5.W6

## Workbenches

197.7

## Wicker furniture

197.8

## Rattan furniture

198

## Upholstering



- Woodworking
  - Furniture -- Continued
    - 199 Repairing. Restoring
    - 199.4 Finishing. Refinishing
    - Carving and whittling
      - Cf. NK9700+ Decorative art
    - 199.7 General works
    - 199.75 Decoys
      - Including painting
    - 199.8 Pyrography. Woodburning
      - Cf. NK8600+ Decorative art
    - 200 General special
      - Including rustic works
    - Picture framing see N8550+
    - Wood staining see TT345
  - Lathework. Turning
    - Cf. TJ1215+ Machine tools
    - Cf. TS546 Watchmakers' lathes
    - Cf. TT207 Metal turning
  - 201 General works
  - 202 Elementary textbooks of woodturning
  - 203 Ornamental, geometric, eccentric, etc.
  - 203.5 Routing. Routers
- Metalworking
  - Cf. NK6400+ Decorative art
  - Cf. TS720+ Precious metals. Jewelry
  - 205.A1 Periodicals
  - 205.A2-Z General works
  - 206 Metal spinning
  - 207 Metal turning
  - 209 Milling
  - 211 Welding
    - Cf. TK4661 Electric welding
    - Cf. TS227+ Manufacturing processes
  - 212 Jewelry craft
  - 213 Other special metal products (not A-Z)
    - Including home furnishings in metal
  - 213.6 Nail craft
  - 214 Scrapmetal craft
  - 214.3 Wire craft
- Ironworking. Forging
  - Cf. TS225+ Manufacturing processes
  - 215 General works
  - Blacksmithing
    - Cf. SF907+ Horseshoeing
  - 218 Periodicals, societies, etc.
  - 220 General works

- Ironworking. Forging
  - Blacksmithing -- Continued
- 221 Amateurs' manuals
- 223 Tables, calculations, etc.
- 224 Equipment and supplies
- 240 Bent iron work. Wrought-iron work
  - Cf. NK8200+ Decorative art
- 242 Aluminum work. Aluminum foil craft
- 250 Copperwork
  - Cf. NK8100+ Decorative art
- 265 Leadwork
  - Cf. NK8350+ Decorative art
- Tinwork. Tin can craft
  - Cf. NK8425 Decorative art
  - Cf. TS600+ Metal manufactures
- 266 General works
- 266.3 Pewter craft
  - Cf. NK8400+ Decorative art
- 267 Soldering and brazing
  - Cf. TH6297 Plumbing
- Stencil cutting. Stencil work
  - Cf. NK8650+ Decorative stencil work
- 270 General works
- 273 Screen process work. Silk-screen printing
  - For serigraphy see NE2236+
  - Cf. TT852+ Textile printing
- 288 Bone and horn craft
  - Cf. NK6020+ Decorative art
  - Cf. TS1050 Manufactures
- 290 Leatherwork
  - Cf. NK6200+ Decorative art
  - Cf. TS1030+ Manufactures
  - Cf. TT666 Gloves
  - Cf. TT667 Handbags
- 293 Rock craft
  - Including flintknapping
- 295 Cement work, plaster craft, etc.
  - Including sand casting, earth casting, etc.
  - Cf. NB1190 Sculpture
- Plastic craft
  - Including use of plastic foam
- 297 General works
- 297.5 Plastic furniture
- 297.8 Fiberglass craft

- 298 Glass craft  
 Including glass engraving, glass painting, glass constructions,  
 glass forming, etc.  
 Cf. NB1270.G4 Glass sculpture  
 Cf. NE2690 Glass engravings  
 Cf. NK5100+ Decorative arts  
 Cf. TH8271+ Decoration in buildings
- Painting, varnishing, gilding, etc.  
 Including industrial painting  
 Cf. ND25+ Fine arts  
 Cf. NK2140+ Decorative painting  
 Cf. TP934+ Paint manufacture  
 Cf. TS698 Metal painting  
 Cf. TS2030+ Carriage painting  
 Cf. TT851 Textile painting
- 300 Periodicals, societies, etc.  
 301 Collected works (nonserial)  
 303 Directories  
 304 History  
 General works  
 305.A2 Early to 1800  
 305.A3-Z 1800-  
 305.3 Paint shops and equipment  
 310 Paintmixing  
 315 Spray painting  
 317 Electrocoating. Electrophoretic deposition  
 House painting. Painting of buildings and structures  
 Cf. TH8001+ Decoration of buildings
- 320 General works  
 323 Interior painting  
 Including decorative finishes, frescoing, marbling, etc.  
 Cf. TT385 Marbling on various materials
- 324 Painters' materials (General)  
 Cf. TP934+ Paint manufacture
- Wood finishing  
 Cf. TS886 Furniture manufacture  
 Cf. TT199.4 Furniture in woodworking crafts
- 325 General works  
 330 Graining and marbling  
 340 Varnishing  
 345 Wood staining  
 Sign painting and lettering. Show cards  
 Cf. NC1800+ Posters
- 360.A1 Periodicals, societies, etc.  
 360.A6-Z General works  
 365 House numbers  
 370 Coloring of bone, stone, etc.

|         |  |
|---------|--|
|         | Painting, varnishing, gilding, etc. -- Continued         |
| 378     | Lacquering, crackle                                      |
| 380     | Gilding, bronzing, etc.                                  |
|         | Metal finishing  |
|         | Cf. TS653+ Industrial manufactures                       |
| 382     | General works  |
| 382.2   | Coloring   |
| 382.4   | Painting and lacquering                                  |
| 382.6   | Enameling  |
|         | Including cloisonné and champlevé                        |
|         | Cf. NK4997+ Decorative arts                              |
| 382.8   | Gilding, bronzing, silvering                             |
| 385     | Decorative painting on various materials. Tole painting. |
|         | Marbling   |
|         | Cf. NK5312 Folk art in the United States                 |
|         | Cf. NK5313+ Folk art in other countries                  |
|         | Cf. TT323 Marbling (Interior painting)                   |
| 386     | Felt marker decoration                                   |
|         | Soft home furnishings                                    |
|         | Cf. TT198 Upholstering                                   |
|         | Cf. TT849 Tapestry                                       |
|         | Cf. TT850 Rugs, carpets, etc.                            |
| 387     | General works  |
| 390     | Curtain making. Drapes                                   |
| 395     | Slipcovers   |
|         | Bedding  |
|         | Cf. TX315 Home furnishings                               |
| 399     | General works  |
| 403     | Bedspreads   |
|         | Cf. TT835 Quilts   |
| 405     | Blankets   |
| 406     | Sheets   |
| 408     | Pillowcases  |
| 410     | Pillows and cushions                                     |
|         | Clothing manufacture                                     |
|         | Including the garment industry                           |
| 490     | Periodicals, societies, etc.                             |
| 494     | Dictionaries and encyclopedias                           |
| 495     | Directories  |
| 496.A-Z | By region or country, A-Z                                |
|         | Subarrange each country by Table T4a                     |
| 497     | General works  |
| 498     | Clothing factories                                       |
|         | Cf. TH4522 Building construction                         |
| 499     | Tables, calculations, etc.                               |

## Clothing manufacture -- Continued

## Dressmaking and women's tailoring. Fashion

Cf. GT500+ History of dress and costume

Cf. NK4700+ Decorative arts

Cf. TR679 Fashion photography

500.A1

History and criticism of periodicals

500.A2-Z

Periodicals and societies. Fashion magazines

Cf. PN4784.F33 Journalism

502

Fashion shows, exhibitions, etc.

503

Dictionaries and encyclopedias

Directories see TT495

503.5

Fashion writing

504

History of dressmaking and tailoring

Special countries

504.4

United States

504.6.A-Z

Other countries, A-Z

Biography

505.A1

Collective

505.A2-Z

Individual, A-Z

e.g.

505.P6

Poiret

505.W6

Worth

506

Pictorial works

507

Art of dress. Theory. Aesthetics. Costume design

508

Study and teaching

509

Fashion drawing

General works

510

Early to 1800

1800-

515

General works

518

Textbooks

519

Addresses, essays, lectures

Women's tailoring

519.5

General works

520

Patternmaking and design

Including cutting, drafting, measuring and grading

522

Blank forms

523

Dress forms

524

Leather garments

525

Fur garments

530

Coats and capes

535

Jackets

540

Skirts

542

Slacks. Trousers

For men's slacks, or men's and women's slacks see

TT605

545

Blouses

## Clothing manufacture

## Dressmaking and women's tailoring. Fashion -- Continued

- 546 Smocks
  - Cf. TT840.S66 Smocking
- 546.5 Aprons
- 547 Maternity clothes
- 550 Alterations. Restyling
- 552 Trimming
- Catalogs and pricelists
- 555 General works
- 556 Catalogs of patterns
  - For catalogs issued periodically see TT500+
- 557 Special fabrics and materials
  - Including buttons, zippers, lining
- 560 General special
- 562 Clothing for girls
- 565 Dress reform
- Tailoring. Men's clothing
  - Periodicals, societies, etc.
- 570 Tailoring
- 572 Furnishing goods, etc.
- Directories see TT495
- 574 Dictionaries and encyclopedias
- Biography see TT505.A1+
- Tailoring
  - General works
    - 575 Early to 1800
    - 580 1800-
  - 583 Repairing, pressing, etc.
  - 585 General special
  - 590 Patternmaking and design
    - Including cutting, drafting, measuring, and grading
  - 593 Study and teaching
  - 595 Coats
  - 600 Overcoats
  - 603 Sleeves
  - 605 Trousers. Slacks
  - 610 Breeches
  - 612 Shirts
  - 615 Vests
  - 616 Neckties
- 617 Men's fashions
- 618 Correct dress
- Catalogs and pricelists
- 620 General works
- 625 Uniforms
- 626 Livery

- Clothing manufacture
  - Tailoring. Men's clothing
    - Catalogs and pricelists -- Continued
  - 627 Furnishings
  - 628 Sample books
  - 630 Clothing for boys
  - 633 Costumes for special occasions
  - Children's clothing
    - Cf. TT562 Clothing for girls
  - 635 General works
  - 637 Baby clothes. Layettes
  - 640 Patterns, etc.
  - 645 Catalogs and pricelists
  - 647 Ecclesiastical vestments
    - Cf. BV167 Religion (General)
    - Cf. BX1925 Catholic Church
    - Cf. BX5180 Church of England
    - Cf. NK4850 Art industries
  - 648 Clothing for people with disabilities
  - 649 Other special types of clothing
    - Including work clothes, sport clothes
  - Dress accessories
    - 649.8 General works
    - Millinery
      - Cf. TS2180+ Hats
  - 650 Periodicals, societies, etc.
  - Biography
    - 653.A1 Collective
    - 653.A2-Z Individual, A-Z
  - 655 General works
  - 657 General special
  - 660 Illustrations and styles
  - 665 Catalogs and pricelists
  - 666 Gloves
    - Cf. TS2160 Glove industry
  - 667 Handbags. Tote bags
  - 667.5 Kerchiefs. Bandannas
  - 668 Belts
  - Underwear. Lingerie
    - 669 Periodicals, societies, etc.
    - 670 General works
    - Special
      - 675 Undershirts
      - 677 Foundation garments
        - Including corsets, girdles, brassieres, etc.
    - 678 Other special

- Clothing manufacture -- Continued
- 678.5 Footwear  
Cf. TS989+ Boot and shoemaking  
Knit goods, hosiery, sweaters, etc. Machine knitting  
Cf. TS2160 Gloves  
Cf. TT819+ Hand knitting and crocheting
- 679 Periodicals, societies, etc.
- 679.5 Dictionaries and encyclopedias
- 680 General works
- 681 Hosiery
- 682 Other special
- 683 Trade publications
- 685 Knitting and crocheting machinery
- 687 Domestic machines
- 688 Knit goods specifications
- 689 Warp knitting
- 690 General special
- 695 Directories
- Home arts. Homecrafts  
Including home arts for women  
Cf. GT480+ Manners and customs
- 697 Periodicals, societies, etc.
- 698 General works  
Textile arts and crafts  
Cf. TT387+ Soft home furnishings  
Cf. TT490+ Clothing manufacture  
Cf. TT925 Soft sculpture
- 699 General works  
Sewing. Needlework  
Cf. TT845 Needlework tools
- 700 Periodicals, societies, etc.
- 705 General works
- 708 Study and teaching
- 710 Textbooks
- 712 Juvenile works
- 713 Sewing by machine  
Cf. TJ1501+ Sewing machine construction
- 715 General special
- Mending
- 720 General works
- 730 Darning  
Decorative needlework. Fancy work  
Cf. NK9100+ Decorative work
- 740 Periodicals, societies, etc.
- 750 General works
- 751 General special  
Patterns



## Home arts. Homecrafts

## Textile arts and crafts

## Decorative needlework. Fancy work

## Patterns -- Continued

753

General works

755

Stamping

760

Stitches

## Embroidery

Cf. NK9200+ Decorative art

Cf. TS1783 Manufacture

769.A-Z

By region or country, A-Z

Subarrange each country by Table T4a

770

General works

770.5

Juvenile works

771

General patterns

772

Machine embroidery

773

Classes of designs

e.g. alphabets, birds, flowers

775

Articles embroidered

e.g. doilies, table covers

777

Materials

e.g. embroidery silk, gold thread

778.A-Z

Types of embroidery, A-Z

778.A87

Assisi

778.B5

Blackwork embroidery

778.B73

Brazilian dimensional embroidery

778.C24

Candlewicking

778.C3

Canvas embroidery

778.C63

Couching

778.C65

Counted thread embroidery

778.C7

Crewelwork

778.C76

Cross-stitch

778.F33

Fagoting

778.H43

Hedebo embroidery

778.H83

Huckaback

778.M47

Metal thread embroidery

778.S55

Shisha mirror embroidery

778.S64

Silk ribbon embroidery

778.S75

Stump work

778.W55

White work

779

Appliqué

## Drawnwork

785

General works

Special kinds

787

Hardanger

791.A-Z

Other, A-Z

## Home arts. Homecrafts

## Textile arts and crafts

## Decorative needlework. Fancy work -- Continued

## Lacemaking

Cf. NK9400+ Decorative art

Cf. TS1782 Machine-made lace

800

## General works

805.A-Z

## Special laces, A-Z

805.B36

Battenberg lace

805.B63

Bobbin lace

805.H34

Hairpin lace

805.I74

Irish crochet lace

805.K54

Knitted lace

805.N43

Needlepoint lace

810

## Lace craft

## Knitting and crocheting

For bead crochet see TT861.3

Cf. RM735.7.K54 Therapeutic use

Cf. TT679+ Machine knitting

819.A-Z

## By region or country, A-Z

Subarrange each country by Table T4a

820

## General works

825

Shawls, sweaters, socks and other articles

829

Toy-knitting. Spool-knitting for children

833

## Locker hooking

Class here general works on the technique of hooking. For works on making specific items, see the item, e.g. TT850

Rugs; TT850.2 Wall hangings

Cf. TT850 Rugs

835

## Quilting and patchwork

Including quilts, coverlets, etc. made by this technique

Cf. TT779 Appliqué

840.A-Z

## Other kinds of fancy work, A-Z

840.F33

Fabric folding

840.M33

Macramé

840.N48

Netting

840.R66

Ropework

840.S66

Smocking

840.S68

Sprang

840.T38

Tatting

845

## Tools and supplies

Including catalogs

847

## Hand spinning

Including use of the spinning wheel

Cf. TS1480+ Industrial spinning

## Home arts. Homecrafts

## Textile arts and crafts -- Continued

## Hand weaving

Including hand weaving not requiring looms, e. g. card weaving

Cf. TS1490+ Industrial weaving

848

## General works

848.5

## Handlooms

849

## Tapestry

Cf. NK2975+ Decorative art

Cf. TH8481 Tapestrying (Wall decoration)

Cf. TS1780 Machine-made tapestry

849.2

## Hammocks

Cf. GN415.3.H35 Ethnology

Cf. TS1781 Textile manufacture

849.5

## Felt work

849.7

## Textile finishing

850

## Hand-made rugs, carpets, etc.

Including those made by hooking

850.2

## Flags. Banners. Wall hangings

850.5

## Ribbon work

Including paper ribbon work

## Textile decoration

Cf. NK9500+ Decorative arts

Cf. TP890+ Chemical industries

851

## Textile painting

Cf. TT323 Marbling (Interior painting)

## Textile printing. Block printing

852

## General works

852.5

## Batik

Cf. NK9503+ Decorative arts

852.6

## Stencil printing

852.7

## Transfer printing. Iron-on transfer work

Cf. NK9510 Art industries

## Textile dyeing

Including the dyeing of garments

853

## General works

853.5

## Tie-dyeing

## Dyes

854

## General works

854.3

## Natural

854.5

## Synthetic

## Decorative crafts

Cf. BM729.H35 Jewish handicraft

Cf. TT205+ Metal crafts

855

## Periodicals, societies, etc.

857

## General works

## Home arts. Homecrafts

## Decorative crafts -- Continued

## Beadwork

860

## General works

Cf. NK3650+ Decorative art

Cf. TS2301.B4 Manufactures

Cf. TT890.2 Bead flowers

861.3

## Bead crochet

862

## Shellcraft

865

## Sand craft

Cf. NB1270.S3 Sand sculpture

Cf. TT295 Sand casting

866

## Wax craft

Cf. NK9580+ Wax modeling

Cf. TT894 Wax flowers

## Printing

866.5

## General works

867

## Rubber stamp printing

868

## Potato printing

869

## Typewriter art

869.5

## Computer art. Computer craft

Cf. N7433.8+ Visual arts

869.7

## Tape craft

## Paperwork

Including the use of cardboard, corrugated paper, etc.

Cf. TL778 Paper airplanes

Cf. TT175+ Paper dolls

Cf. TT850.5 Paper ribbon work

Cf. TT892 Paper flowers

870

## General works

870.5

## Box craft

Including box making

871

## Papier-mâché craft

Cf. TS1155 Manufactures

871.5

## Gift wrapping

872

## Greeting card craft

Including making Christmas cards, birthday cards, etc.

872.5

## Origami

## Vegetable-fiber work

873

## General works

873.2

## Banana craft

873.5

## Gourd craft

874

## Pine needle crafts

874.5

## Pine cone craft

875

## Raffia and bast work

Cf. LB1543 Primary education

876

## Straw work

## Home arts. Homecrafts

## Decorative crafts

## Vegetable-fiber work -- Continued

876.3

Grasswork

876.5

Rattan work

Cf. TT197.8 Rattan furniture

877

Rush work

877.5

Palm frond weaving. Lauhala weaving. Vacoa weaving

877.8

Water hyacinth craft

878

Cornhusk craft

879.A-Z

Special articles, A-Z

879.B3

Baskets

Cf. NK3649.5+ Decorative arts

Cf. TS910 Industrial basketmaking

879.J3

Jackets for bottles, etc.

Wicker furniture see TT197.7

880

Work in miscellaneous materials

Including felt, string, braid, rubber bands

## Fancy articles

## Artificial flowers

890

General works

890.2

Bead flowers

890.3

Bread flowers

890.4

Ceramic flowers

Fabric flowers

890.5

General works

890.7

Silk flowers

Cf. SB449.3.S44 Flower arrangement

891

Feather flowers

891.3

Glass flowers

892

Paper flowers

894

Wax flowers

896

Artificial fruits

896.3

Books. Altered books

896.5

Candles

Cf. TP993 Chemical technology of candles

896.55

Chessmen

Cf. NK4696 Decorative art

896.7

Decorated eggs. Eggshell craft

Cf. NK4900 Decorative art of Easter eggs

896.8

Decorative balls

Jewelry see TT212

897

Lampshades

897.2

Lamps

Cf. TK9921 Electricity for amateurs

Cf. TT197.5.L34 Woodwork

## Home arts. Homecrafts

## Decorative crafts

## Fancy articles -- Continued

- 898                   Masks  
                      For theatrical masks see PN2071.M37
- 898.2               Merry-go-round art
- 898.3               Mirrors  
                      Cf. NK8440+ Decorative arts
- 899                   Mobiles  
                      Cf. NB1272 Sculpture
- 899.2               Picture frames
- 899.3               Pincushions  
                      Cf. NK4660 Pincushion dolls
- 899.4               Potpourris (Scented floral mixtures)
- 899.45              Screens
- 899.5               Tassels
- 899.6               Vases
- 899.7               Windchimes
- 899.73              Door harps
- 899.74              Tabletop fountains  
                      Cf. NK8724 Decorative arts
- Plant containers and container gardening equipment see  
                      SB418.4
- 899.75              Wreaths  
                      Cf. SB449.5.W74 Flower arrangement
- 900.A-Z             Decorations for special events, A-Z
- 900.C37             Carnival
- 900.C38             Chinese New Year
- 900.C4              Christmas  
                      Cf. GT4988 Manners and customs
- 900.E2              Easter
- 900.F68              Fourth of July
- 900.H32              Halloween
- 900.H34              Hanukkah
- 900.H6              Holidays
- 900.K92              Kwanzaa
- 900.M68              Mother's Day
- New Year, Chinese see TT900.C38
- 900.P3              Parties
- 900.P74              Presidents' Day
- 900.S25              Saint Patrick's Day
- 900.T5              Thanksgiving
- 900.V34              Valentine's Day
- Other special techniques

- Home arts. Homecrafts
  - Decorative crafts
    - Other special techniques -- Continued
    - 910 Collage, assemblage, constructions, etc. in miscellaneous materials
      - Cf. N6494.A8 Assemblage (Art)
      - Cf. N6494.C6 Collage (Art)
      - Cf. TR685 Composite photography
    - 911 Face painting (Handicrafts)
    - 912 Rubbing craft
      - Cf. NB1840+ Sculpture
      - Cf. NC915.R8 Graphic arts
    - 916 Modeling in clay, etc.
      - Cf. NB1180 Sculpture
    - Pottery craft
      - Cf. NK3700+ Ceramics (Art industries)
      - Cf. TP807+ Ceramic technology
      - Cf. TT890.4 Ceramic flowers
    - 919 Periodicals, societies, etc.
    - 919.5 Dictionaries and encyclopedias
    - 919.7.A-Z By region or country, A-Z
      - Subarrange each country by Table T4a
    - 920 General works
    - 921 Juvenile works
    - Equipment and supplies
      - 921.5 General works
      - 922 Glazes
      - 924 Kilns
      - 925 Soft sculpture
        - Cf. NB1203 Sculpture
      - 926 Balloon sculpture. Balloon decorations
      - 927 Tile craft
  - Hairdressing, barbering, beauty culture, cosmetology, etc.
    - Including beauty shop practice
    - 950 Periodicals. Societies. Collections
    - 951 Dictionaries and encyclopedias
    - Documents
      - United States
        - 952 General works
        - 953.A-.W States, A-W
        - 954.A-Z Other countries, A-Z
        - 954.5 Directories
      - Biography
        - 955.A1 Collective
        - 955.A2-Z Individual, A-Z
      - General works
        - 956 Before 1800

- Hairdressing, barbering, beauty culture, cosmetology, etc.  
General works -- Continued
- 957 1800-  
958 General special  
Including vocational guidance
- 958.3 Nail care. Manicuring  
Class here works on nail care as practiced by professionals and  
beauty operators  
For nail care as practiced by individuals see RL94
- 958.5 Skin care  
Class here works on skin care as practiced by beauty operators  
For skin care as practiced by individuals, see RL87
- 959 Permanent makeup  
960 Barbers' manuals  
963 Hair styles for men  
964 Shaving  
Shop management
- 965 General works  
Equipment and supplies
- 966 General works  
Catalogs see TT979
- 967 Razors  
968 Other special  
969 Materials  
Including dyes, oils, soaps, etc.
- 970 Haircutting (General)  
Cf. TT960 Barber's manuals
- 971 Study and teaching  
Hairdressing for women
- 972 General works  
973 Hair tinting and bleaching
- Hairwork
- 975 Braids, wigs, toupees, etc.  
Cf. PN2069 Theatrical wigs
- 976 Ornaments, jewelry, etc.  
977 Recipes for barbers (for hair preparations)  
979 Catalogs of equipment and supplies
- Laundry work  
Cf. GT482 Laundering customs  
Cf. TP932+ Dry cleaning
- 980 Periodicals, societies, etc.  
983 Directories  
985 General and domestic  
990 Commercial. Steam-laundry work  
991 Blueing and bleaching  
993 Starching  
995 Ironing



TT

HANDICRAFTS. ARTS AND CRAFTS

TT

997 Laundry work -- Continued  
Materials. Machinery  
998 General special  
999 Catalogs, etc.

- Home economics
- 1 Periodicals, societies, etc.
- 5 Congresses
- Exhibitions. Museums
- 6.A1 General works
- 6.A2-Z By region or country, A-Z
  - Subarrange each country by Table T4b
- Collected works (nonserial)
- 7 Collections by several authors
- 8 Collected works of individual authors
- 9 Minor collections: Papers, essays, etc.
- 11 Dictionaries and encyclopedias
- 13 Theory. Philosophy
- History and antiquities
  - Including manners and customs, gastronomy, etc.
  - For modern works on gastronomy see TX631+
  - Cf. GT1+ Manners and customs
- 15 General works
- 16 Ancient
- 17 Medieval
- 18 17th-18th centuries
- 19 19th-20th centuries
- 21-127 Special countries (Table T1a)
  - Add country number in table to TX0
- Biography
- 139 Collective
- 140.A-Z Individual, A-Z
- General works
- 144 Early to 1800
- 145 1800-
  - Textbooks see TX167
- 147 General special
  - Including economics of daily life for men, institutional administration
- 148 Juvenile works
- 149 Household science (Chemistry, physics, etc.)
- 150 Home accidents and their prevention
- Pocketbooks, tables, receipts, etc.
  - Class here works that emphasize household economics
- 151 16th-18th century
- 19th century
- 153 American
- 154 English
- 155 French
- 156 German
- 157 Other (not A-Z)
- 20th century

- Pocketbooks, tables, receipts, etc.
- 20th century -- Continued
- 158 American
- 159 English
- 160 French
- 161 German
- 162 Other (not A-Z)
- 21st century
- 162.2 American
- 162.3 English
- 162.4 French
- 162.5 German
- 162.6 Other (not A-Z)
- 164 Home economics as a profession
- Study and teaching
- 165.A1 Periodicals, societies, etc.
- 165.A3-Z General works
- 167 Textbooks
- 170 Examinations, questions, etc.
- 170.7 Laboratory manuals
- 171-277 Special countries (Table T1a)
- Add country number in table to TX150
- Special schools
- 285.A-Z United States. By school, A-Z
- 286.A-Z Other countries. By school, A-Z
- 295 Essays, light literature, fiction, etc.
- Household apparatus and utensils
- Cf. TX656+ Kitchen utensils
- 298 General works
- 299 Catalogs
- The house
- Cf. NA7120 Domestic architecture (Popular works)
- Cf. TH4805+ House construction
- Cf. TX653+ Kitchens
- Cf. TX855+ Dining rooms
- 301 General works
- 303 General special
- Location
- 305 General works
- 307 Household moving
- 309 Arrangement
- Furnishing
- Cf. TT387+ Soft home furnishings (Handicraft)
- 311 General works
- 315 General special
- Including sheets and pillowcases

## The house -- Continued

(317)

## Decoration and ornament

see NK1700+

## Administration

321

## General works

323

## Care of the house

Cf. TH2528 Flooring

Cf. TH4817+ Home maintenance and repair

324

## Cleaning

Including silver cleaning

325

## Household pests

Cf. RA639+ Insects and disease

Cf. SB818+ Economic entomology

Cf. SB992+ Noxious and useful animals

Cf. TA423.7 Termite control

## Finance, budgets, bookkeeping, accounts

For early works see TX15+

Cf. HD6977+ Cost of living

326.A1

## Periodicals. Societies. Serials

326.A3-Z

## General works

## Household employees

331

## General works

333

## General special. Morals, conduct, etc.

## Biography

334

## Collective

334.1.A-Z

## Individual, A-Z

## Shopping. Consumer education

Including shopping guides and directories of discount and outlet stores

For economic aspects of discount and outlet stores see HF5429.2+

Cf. TX356 Shopping for food

335

## General works

335.5

## Juvenile works

## By region or country

## United States

336

## General works

336.5.A-Z

## By region or state, A-Z

Subarrange each country by Table T4a

337.A-Z

## Other regions or countries, A-Z

Subarrange each country by Table T4a

339

## Janitor service

Cf. LB3235 Schoolhouse service

Cf. TX957+ Apartment house service

- 340 Clothing  
Cf. TT490+ Clothing manufacture  
Cf. TT700+ Sewing  
Cf. TT980+ Laundry work  
Nutrition. Foods and food supply  
Cf. HD9000+ Provision trade  
Cf. TP368+ Food processing industry  
Cf. TP500+ Beverage industry  
Cf. TS1950+ Butchering, packinghouse industries  
Cf. TS1975 Meat inspection  
Cf. TS2120+ Cereal and grain milling industry  
Periodicals, societies, etc. Food research institutes  
Cf. PN4784.F55 Journalism
- 341 General periodicals
- 343 Grocery trade periodicals  
Periodicals relating to adulteration and inspection see  
TX501
- 345 Congresses  
Directories of grocers see HD9320+  
Exhibitions. Pure food shows, etc.
- 346.A1 General works
- 346.A2-Z Special. By city, A-Z
- Dictionaries and encyclopedias  
Including dictionaries of cooking
- 349 General works
- 350 Bilingual and polyglot
- Biography
- 350.7 Collective
- 350.8.A-Z Individual, A-Z
- General works. Sources, supply, etc.
- 351 Early to 1800
- 353 1800-
- 354 Textbooks
- 354.5 Grocers' catalogs
- 355 Popular works. Juvenile works  
Cf. TX149 Household science  
Cf. TX533 Food adulteration, etc.
- 355.5 Addresses, essays, lectures
- 356 Shopping for food. Economy. Thrift
- 357 General special  
Including dietitians, food economy in war time
- 359 Nutrition policy  
Prefer classification by country in TX360.A+  
Cf. HD9000.6 Food products industry  
Diet, food supply, nutrition policy of special countries

## Nutrition. Foods and food supply

Diet, food supply, nutrition policy of special countries --

Continued

360.A-Z

By region or country, A-Z

*Under each country:**.x**General works**.x2A-.x2Z**By state, province, etc., A-Z**.x3A-.x3Z**Special. By city, A-Z*

e.g.

United States

360.U6

General works

360.U62A-.U62W

By state, A-W

360.U63A-.U63Z

By city, A-Z

360.5

Developing countries

361.A-Z

Diet and nutrition of special classes and groups, A-Z

361.A27

African Americans

361.A3

Aged. Older people

361.A4

Agricultural laborers

Astronauts see TX361.S63

361.A8

Athletes

361.B64

Bodybuilders

361.C5

Children

361.C6

College students

361.C94

Cyclists

361.E43

Elementary school students

361.E93

Executives

361.F37

Farmers

361.F5

Fishers

361.G74

Greek Americans

361.H35

Handicapped. People with disabilities

361.H53

High school students

361.H57

Hispanic Americans

361.H62

Hmong Americans

361.H65

Homeless

Infants see RJ216

Low-income groups see TX361.P66

361.M39

Mexican Americans

361.M47

Middle-aged persons

361.M474

Middle school students

361.M48

Migrant laborers

361.M5

Miners

Older people see TX361.A3

People with disabilities see TX361.H35

361.P66

Poor. Low-income groups

361.P74

Preschool children

361.R86

Runners

361.S58

Soccer players

## Nutrition. Foods and food supply

Diet and nutrition of special classes and groups, A-Z --

Continued

361.S63 Space travelers. Astronauts

361.T44 Teenage girls

361.T45 Tennis players

Toddlers see RJ216

361.V47 Veterans

361.W55 Women

361.W6 Workers

361.W7 Working women

361.Y6 Youth

## Study and teaching

364 General works

365.A-Z Special schools, A-Z

367 Research

For food research institutes see TX341+

Markets see HF5469.7+

Grocery business see HD9320+

368 Street food

Class here general works on street food

369 Natural foods

370 Junk food. Convenience foods

## Food of animal origin

Cf. TS1960+ Butchering, packinghouse industries, etc.

Cf. TS1975 Meat inspection

371 General works

373 Butchers' meats

375 Poultry and game

Cf. SF481+ Poultry culture

## Dairy foods

Cf. SF221+ Dairying

377 General works

379 Milk

380 Yogurt

381 Butter

382 Cheese

383 Eggs

Cf. SF481+ Poultry culture

385 Fish

Cf. SH1+ Fisheries

387 Shellfish

Cf. SH365+ Fisheries

Cf. SH380+ Lobster fisheries

388.A-Z Other natural products, A-Z

388.I5 Insects

388.T8 Turtles

- Nutrition. Foods and food supply  
Food of animal origin  
Other natural products, A-Z -- Continued  
388.W4 Whales  
389 Prepared foods, meat extracts, etc.  
Including trade publications  
Vegetable foods  
391 General works  
Vegetarianism  
Cf. BL65.V44 Religious aspects  
Cf. TX837+ Cooking  
392.A1-.A4 Periodicals, societies, etc.  
392.A5-Z General works  
Biography  
392.7 Collective  
392.8.A-Z Individual, A-Z  
Cereals  
393 General works  
394 Bread  
394.5 Pasta products  
395 Prepared cereals  
Cf. TP435.C4 Food processing industry  
396 Flowers  
397 Fruits  
399 Nuts  
Vegetables  
401 General works  
401.2.A-Z Special, A-Z  
401.2.P47 Peppers. Hot peppers  
401.2.P67 Potatoes  
401.2.S69 Soybeans and soybean products  
Including soy sauce  
402 Algae as food  
Including marine algae  
Condiments, spices, etc.  
406 General works  
407.A-Z Special, A-Z  
407.M38 Mayonnaise  
407.O34 Oils and fats, Edible  
407.P4 Pepper  
407.S69 Soy sauce  
409 Baking powders, etc.  
Beverages  
Cf. TP620+ Chemical technology  
412 General works  
415 Tea, coffee, cocoa, etc.



## Nutrition. Foods and food supply -- Continued

## Examination and analysis. Composition. Adulteration

For foods and public health see RA601+

For food processing see TP372.5+

For meat inspection see TS1975

501

## Periodicals, societies, etc.

Including those relating to adulteration and inspection

Cf. TX341+ Nutrition

511

## Congresses

For pure food congresses see HD9000.9.A+

515

## History

## Biography

517

## Collective

518.A-Z

## Individual, A-Z

e.g.

518.W5

Wiley, H. W.

531

## General works

533

## Popular works

535

## General special. Pamphlets

537

## Food standards, etc.

## Analysis (Methods)

541

## General works

542

## Magnetic resonance imaging

543

## Microscopic

544

## Thermal

545

## Chemical

546

## Sensory evaluation

## Spectrum analysis

547

## General works

547.2.A-Z

## Special methods, A-Z

547.2.I53

## Infrared spectroscopy

## Chromatography

548

## General works

548.2.A-Z

## Special methods, A-Z

548.2.G36

## Gas

548.2.L55

## Liquid

548.2.T48

## Thin layer

549

## Immunoassay

## Dietary studies, food values, experiments, tests, etc.

Cf. RM214+ Therapeutics

Cf. TX341+ Food supply

Cf. TX361.A+ Foods for special classes

551

## General works

552

## Canned foods

552.15

## Baked products

553.A-Z

## Special constituents, A-Z

553.A3

## Additives

## Nutrition. Foods and food supply

Examination and analysis. Composition. Adulteration

Dietary studies, food values, experiments, tests, etc.

Special constituents, A-Z -- Continued

|         |                         |
|---------|-------------------------|
| 553.A5  | Amino acids             |
| 553.A7  | Antibiotics             |
| 553.A73 | Antioxidants            |
| 553.A8  | Ascorbic acid           |
| 553.C23 | Calcium                 |
| 553.C28 | Carbohydrates           |
| 553.C3  | Carotinoids             |
| 553.C43 | Cholesterol             |
| 553.C45 | Choline                 |
| 553.E6  | Enzymes                 |
| 553.F53 | Fibers                  |
| 553.G47 | Gluten                  |
| 553.I75 | Iron                    |
| 553.L5  | Lipids                  |
| 553.M55 | Minerals                |
| 553.P4  | Pectic substances       |
| 553.P45 | Phosphorus              |
| 553.P65 | Polysaccharides         |
| 553.P7  | Proteins                |
| 553.S65 | Sodium                  |
| 553.S8  | Sugar                   |
| 553.S85 | Sulfur                  |
| 553.T7  | Trace elements          |
| 553.U5  | Unsaturated fatty acids |
| 553.V5  | Vitamins                |
| 553.W3  | Water                   |

## Special foods

Food of animal origin

|         |                             |
|---------|-----------------------------|
| 555     | General works               |
| 556.A-Z | Special, A-Z                |
| 556.B4  | Beef                        |
| 556.B8  | Buffalo                     |
| 556.C35 | Camel meat                  |
|         | Dairy products see TX556.M5 |
| 556.E4  | Eggs                        |
| 556.G45 | Gelatin                     |
| 556.H8  | Horsemeat                   |
| 556.K36 | Kangaroo meat               |
| 556.L3  | Lamb                        |
| 556.M4  | Meat                        |
| 556.M43 | Meat, Precooked             |
| 556.M5  | Milk and milk products      |
| 556.P6  | Pigeons                     |

## Nutrition. Foods and food supply

Examination and analysis. Composition. Adulteration

Dietary studies, food values, experiments, tests, etc.

## Special foods

Food of animal origin

Special, A-Z -- Continued

556.P8

Pork

556.P9

Poultry

556.V4

Venison

556.5

Fish. Seafood

Vegetables, cereals, fruits, etc.

557

General works

558.A-Z

Special, A-Z

558.A3

Acorns

558.A6

Apples

558.B3

Bananas

558.B35

Barley

Bean curd see TX558.T57

558.B4

Beans

558.B6

Bran

558.B7

Bread

558.C2

Cabbage

558.C35

Cassava

558.C38

Chia

558.C4

Chickpea

558.C5

Citrus fruits

558.C54

Coca flour

558.C57

Corn. Cornmeal. Maize

558.C6

Cowpea

558.D3

Dasheen

558.D35

Dates

Flour see TX558.W5

558.F7

Fruit (General)

558.G6

Grapes

558.G67

Groats

558.H2

Hay

558.L4

Legumes (General)

558.L5

Lemon

558.L6

Logan blackberry

Maize. Corn, cornmeal see TX558.C57

558.M5

Millet

558.M9

Mushrooms and other fungi

558.N6

Nori

558.N8

Nuts

558.O3

Oats

558.O5

Olives

558.O7

Oranges

## Nutrition. Foods and food supply

Examination and analysis. Composition. Adulteration

Dietary studies, food values, experiments, tests, etc.

## Special foods

Vegetables, cereals, fruits, etc.

Special, A-Z -- Continued

558.P3

Peaches

558.P35

Peas

558.P8

Potatoes

558.R4

Rhubarb

558.R5

Rice

558.R9

Rye

558.S6

Sorghum

558.S7

Soybean

558.S75

Sprouts

558.S8

Starches

558.S94

Sweet potatoes

558.T39

Tempeh

558.T57

Tofu

558.T6

Tomatoes

558.T7

Triticale

558.V4

Vegetable juices

558.W5

Wheat. Flour

## Miscellaneous products

559

General works

560.A-Z

Special, A-Z

560.A3

Alcohol

560.B8

Bread

560.C2

Cacao

Cocoa-butter see TP684.C2

560.C63

Coffee

560.C65

Confectionery

560.C7

Cottonseed products

560.D68

Dough

560.F3

Fats (Animal and vegetable)

560.F47

Fermented food

560.H7

Honey

560.M2

Macaroni

560.M3

Maple sugar. Maple syrup

560.M35

Mate (Tea)

560.N7

Nut oils

560.O3

Oils (General)

560.O4

Olive oil

560.P6

Pollen

560.S4

Seed oils

560.S9

Sugar

560.Y4

Yeast

## Nutrition. Foods and food supply

## Examination and analysis. Composition. Adulteration --

## Continued

## Adulterants and adulteration, impurities, etc.

Cf. QP501+ Physiological effects of chemicals

Cf. RA601+ Public hygiene - Foods

## General works see TX531

563

## Detection of adulterants

567

## Microscopic analysis

569

## Chemical analysis

## Special adulterants and impurities

571.A-Z

## By classes, A-Z

Cf. TX599+ Preservatives

571.A58

## Antibiotic residues

571.C7

## Coloring matter

571.G3

## Gases, Asphyxiating and poisonous

571.M48

## Metals

571.P4

## Pesticide residues

571.P63

## Plastics. Urethanes

571.R3

## Radioactivity

571.S65

## Solvents

571.S9

## Sweeteners, Artificial

## Urethanes see TX571.P63

571.V48

## Veterinary drug residues

571.X45

## Xenobiotics

572.A-Z

## By chemical composition, A-Z

572.A6

## Aluminum

572.A77

## Arsenic

572.C24

## Cadmium

572.C3

## Calcium sulfate

572.H4

## Heavy metals

572.L4

## Lead

572.M4

## Mercury

572.N5

## Nitrates, nitrites

572.P65

## Polychlorinated biphenyls

572.S79

## Styrene

572.S9

## Sulfurous acid

572.T6

## Tin

## Special foods

Including methods of analysis

583

## Coffee

585

## Tea

## Milk see SF254.A1+

## Spices

587

## General works

588.A-Z

## Special, A-Z

589

## Flavoring extracts

## Nutrition. Foods and food supply

Examination and analysis. Composition. Adulteration

Adulterants and adulteration, impurities, etc.

Special foods -- Continued

595.A-Z

Other foods, A-Z

595.F47

Fish

595.F5

Flour

595.R37

Rape oil

595.T6

Tomatoes

Beverages

596

General works

597

Alcoholic beverages

Cf. TP612 Compounding

## Preservation and storage of foods in the home. Food

handling in the home

Cf. HD9320+ Grocery trade

Cf. RA601+ Public hygiene

Cf. SB129+ Farm produce

Cf. SF250.5+ Dairy products

Cf. SH334.9+ Fishery products

Cf. TP371.2+ Food processing industry

Cf. TS1968 Poultry processing

599

Periodicals. Societies. Serials

600

Directories

601

General works

602

Study and teaching. Research

603

Canning

Cold storage see TP372.2

Chemical treatment. Preservatives see TP371.4+

609

Drying, smoking, etc.

Cf. TX835 Smoked foods cooking

610

Freezing

Sterilization see TP371.35

Radiation sterilization see TP371.8

612.A-Z

Special foods and condiments, A-Z

612.A6

Apples

612.B4

Berries

612.C5

Cherries

612.C57

Citrus fruits

612.E4

Eggs

612.F5

Fish (General)

612.F7

Fruit (General)

Game dressing and skinning see SK36.2

612.J3

Jam (General)

612.J4

Jelly (General)

612.M37

Marmalade

612.M4

Meat

- Nutrition. Foods and food supply  
Preservation and storage of foods in the home. Food handling in the home  
Special foods and condiments, A-Z -- Continued  
612.M8 Mushrooms  
612.T7 Tomatoes  
612.V4 Vegetables (General)  
Cf. SB324.85 Storage for market  
Gastronomy, pleasures of the table, dining, etc.  
Including food tourism  
631 General works  
633 American  
635 English  
637 French  
639 German  
641 Other (not A-Z)  
Cooking  
Periodicals see TX1  
Exhibitions. Museums see TX6.A1+  
642 Collectors and collecting. Collectibles  
Dictionaries and encyclopedias see TX349+  
Communication of cooking information  
643 General works  
644 Language. Authorship  
645 History  
648 Awards, prizes, etc. Competitions  
Biography  
Including works on cooks, food writers, etc.  
649.A1 Collective  
649.A2-Z Individual, A-Z  
650 Directories  
For directories of restaurants, etc. see TX907+  
General works  
651 Treatises  
Class here works emphasizing technique of cooking, with or without recipes  
Cf. TX714 General recipe collections  
652 General special  
652.4 Vocational guidance  
Cf. TX911.3.V62 Vocational guidance for the hospitality industry  
652.5 Juvenile works  
652.7 Minor works, tables, etc.  
652.9 Essays, lectures, etc.  
652.95 Molecular gastronomy

## Cooking -- Continued

## Kitchen

Class here works on kitchens, including history, construction,  
and kitchenware in general

For works on interior design, decoration, and plans for  
kitchens see NK2117.K5

653

General works

655

Arrangement

Equipment, appliances, utensils, etc.

Cf. NK6140 Kitchen collectibles

656

General works

657.A-Z

Special, A-Z

657.A66

Apple parers. Peelers

657.B34

Baking pans

Chafing dishes see TX825

657.C67

Coffee making paraphernalia

657.C7

Cookers

657.C72

Cookie molds. Cookie cutters

Cookware

657.C74

General works

Baking pans see TX657.B34

Kettles see TX657.K4

657.C76

Corkscrews

657.D6

Dishwashing machines

657.E35

Eggbeaters

Fireless cookers see TX831

657.F7

Fryers

657.I24

Ice cream scoops

657.K4

Kettles

657.K54

Knives

657.M85

Muffin pans

657.N87

Nutcrackers

Ovens

657.O57

Brick. Clay

657.O6

Gas

657.O64

Microwave

Peelers, Apple see TX657.A66

657.P6

Potato peeling machines

657.S28

Spoons

Stoves and ranges

Cf. TS425 Stove manufacture

657.S3

General

657.S4

Coal

657.S5

Electric

657.S6

Gas

657.S7

Gasoline

657.S8

Oil



## Cooking

Equipment, appliances, utensils, etc.

Special, A-Z

Stoves and ranges -- Continued

657.S9

Wood

657.T43

Tea making paraphernalia

Toasters

657.T58

Electric

657.T6

Gas

658

Catalogs of miscellaneous articles

Study and teaching

661

General works

663

Textbooks, etc.

Special schools

667

American

669.A-Z

Other countries, A-Z

Cooking processes

681

General works

683

Baking

685

Boiling

686

Braising

687

Broiling

Frying

689

General works

689.4

Sautéing

689.5

Stir frying

690

Roasting

690.7

Sous-vide

691

Steaming

693

Stewing. Cooking en casserole

Cookbooks

Early to 1800

703

American. Canadian

705

English

707

French

709

German

711

Italian

713

Other (not A-Z)

1800-

714

General recipe collections

Class here works consisting of collected recipes not  
primarily of a regional, ethnic, or international nature,  
nor using a specific ingredient or method of cooking, in  
which the technique of cooking is not emphasized

For treatises see TX651

For ethnic or regional cooking see TX714+

For international cooking see TX725.A1

## Cooking

## Cookbooks

## 1800- -- Continued

## American

For French, German, etc., cookbooks published in America,  
see TX719, TX721, etc.

715

## General works

715.2.A-Z

## By style of cooking, A-Z

715.2.A47

African American cooking

715.2.C34

California style

Hawaiian style see TX724.5.H3

715.2.L68

Louisiana style

715.2.M53

Midwestern style

715.2.N48

New England style

715.2.P32

Pacific Northwest style

Pennsylvania Dutch style see TX721

715.2.S68

Southern style

715.2.S69

Southwestern style

715.2.W47

Western style

715.6

## Canadian

715.8

## Greenlandic

## Latin American

716.A1

## General works

716.A3-Z

## By region or country, A-Z

717

## English

717.2

## Celtic

717.3

## Scottish

717.5

## Irish

717.7

## Welsh

## French

719

## General works

719.2.A-Z

## By style of cooking, A-Z

719.2.A45

Alsatian

719.2.A98

Auvergne

719.2.B74

Brittany

719.2.B87

Burgundy

719.2.C67

Corsican

719.2.F73

Franche-Comté

719.2.G37

Gascony

719.2.N67

Normandy

719.2.P75

Provençal

721

## German. Austrian

Including Pennsylvania-Dutch cookbooks

## Scandinavian

722.A1

## General works

722.A3-Z

## By region or country, A-Z

## Italian

## Cooking

## Cookbooks

1800-

Italian -- Continued

723

General works

723.2.A-Z

By style of cooking, A-Z

723.2.N65

Northern

723.2.S55

Sicilian

723.2.S65

Southern

723.2.T86

Tuscan

Russian

723.3

European

723.4

Asiatic

Including Caucasian

Other European

723.5.A1

General works

723.5.A3-Z

By region or country, A-Z

Jewish. Israeli

Cf. TX739.2.H35 Hanukkah

Cf. TX739.2.P37 Passover

724

General works

724.2.A-Z

By style of cooking, A-Z

724.2.H86

Hungarian

724.2.I73

Iraqi

724.2.M67

Moroccan

724.2.S36

Samaritan

724.2.S47

Sephardic

724.2.T75

Tripolitanian

724.2.Y46

Yemenite

Oriental. Asian

Including East Asian, South Asian, Southeast Asian,  
Polynesian, and Asian American

For Asiatic Russian see TX723.4

For Middle Eastern see TX725.M628

724.5.A1

General works

724.5.A3-Z

By region or country, etc., A-Z

e. g.

724.5.C5

Chinese

724.5.H3

Hawaiian

724.5.I4

India

724.5.I5

Indonesia

724.5.J3

Japan

724.5.K65

Korea

724.5.T5

Thailand

724.5.V5

Vietnam

Other

725.A1

International

## Cooking

## Cookbooks

1800-

Other -- Continued

725.A3-Z

By region or country, A-Z

Including Africa, Australia, Middle East, etc.

725.M628

Middle East

(725.N36)

Near East

see TX725.M628

## Cooking using alcoholic beverages

726

Wine. Liquors

726.2

Cider

726.3

Beer

726.4

Makkölli

## Menus, bills of fare, kitchen almanacs, etc.

Cf. TX911.3.M45 Hotels, clubs, restaurants, etc.

727

Early to 1800

728

1800-

731

Entertaining, dinner-giving, etc.

For entertaining in which food is not primary see GV1+

## Special meals

For individual foods or ingredients see TX743+

For special methods of cooking see TX820.2+

733

Breakfasts. Brunches

735

Luncheons

Including lunchbox cooking

736

Afternoon teas

Cf. GT2905+ Tea customs

Cf. TX817.T3 Beverages

737

Dinners

738

Suppers

738.5

Buffets

## Special occasions. Holidays

739

General works

739.2.A-Z

By occasion or holiday, A-Z

739.2.A48

Advent

739.2.C45

Christmas

739.2.E37

Easter

Fast day see TX837+

739.2.H34

Halloween

739.2.H35

Hanukkah

Lent see TX837+

739.2.P37

Passover

Picnics see TX823

739.2.R67

Rosh ha-Shanah

739.2.T45

Thanksgiving

739.2.V34

Valentine's Day

## Cooking -- Continued

- 740           Miscellaneous recipes. Canapes, hors d'oeuvres, salads, etc.
  - For vegetable salads see TX807
- 740.5       Food presentation. Garnishes
- 741       Natural foods
- 742       Raw foods
- Food of animal origin
- 743       General works
- 745       Eggs
- 746       Insects
- 746.2      Earthworms
- Fish. Seafood
  - Cf. TX753+ Shellfish
- 747       General works
- 748.A-Z     Special, A-Z
- 748.A53    Anchovies
- 748.B37    Bass
- 748.B55    Bluefish
- 748.B67    Bowfin
- 748.B85    Burbot
- 748.C35    Carp
- 748.C36    Catfish
- 748.C38    Caviar
- 748.C63    Codfish
- 748.C73    Crappie
- 748.D64    Dogfish
- 748.E32    Eels
- 748.F83    Fugu
- (748.G7)   Grayfish
  - see TX748.D64
- 748.G74    Groupers
- 748.H33    Haddock
- 748.H45    Herring
- 748.M32    Mackerel
- 748.M84    Mullet
- 748.P54    Pike
- 748.P64    Pollock
- 748.S24    Salmon
- 748.S26    Sardines
- 748.S43    Shad
- 748.S5     Sharks
- 748.S58    Skates (Fishes)
- 748.S68    Squid
- 748.S75    Striped bass
- 748.T54    Tilefish
- 748.T74    Trout
- 748.T84    Tuna

TX

## HOME ECONOMICS

TX

## Cooking

## Food of animal origin

## Fish. Seafood

## Special, A-Z -- Continued

748.W48

## Whale meat

## Meat

749

## General works

749.5.A-Z

## Special, A-Z

749.5.A44

## Alligator

## Bacon see TX749.5.P67

749.5.B43

## Beef

## Game see TX751

749.5.G63

## Goat meat

749.5.H35

## Ham

749.5.H67

## Horsemeat

749.5.L35

## Lamb and mutton

749.5.P67

## Pork

## Including bacon

## Poultry see TX750+

749.5.R32

## Rabbit

749.5.S28

## Sausages

749.5.V37

## Variety meats

## Poultry

750

## General works

750.5.A-Z

## Special, A-Z

750.5.C45

## Chicken

750.5.D82

## Duck

750.5.E45

## Emu

750.5.O77

## Ostrich

750.5.P45

## Pheasant

750.5.Q34

## Quail

750.5.T87

## Turkey

751

## Game

## Shellfish

753

## General works

754.A-Z

## Special, A-Z

754.C53

## Clams

754.C83

## Crabs

754.C84

## Crayfish

754.L63

## Lobsters

754.M98

## Mussels

754.O98

## Oysters

754.S33

## Scallops

754.S58

## Shrimp

754.S63

## Snails

757

## Soups

## Dairy products

## Cooking

## Food of animal origin

## Dairy products -- Continued

759

General works

759.5.A-Z

Special, A-Z

759.5.B87

Butter

759.5.C48

Cheese

Evaporated milk see TX759.5.M54

759.5.M54

Milk

759.5.S68

Sour cream and milk

759.5.Y63

Yogurt

## Baking. Confectionery

Cf. GT5960.B34+ Manners and customs

761

Periodicals, societies, etc.

763

General works

765

Minor works, recipe books, etc.

767.A-Z

Recipes for special food products, A-Z

767.A65

Apple butter

767.C37

Caramel

767.C5

Chocolate

767.H7

Honey

767.M3

Maple sugar and syrup

767.W48

White chocolate

## Bread

769

General works

770.A-Z

Special breads, A-Z

770.B35

Bagels

770.B55

Biscuits. Scones

770.C45

Challah

770.C64

Corn bread

770.C72

Crackers

Crepes see TX770.P34

770.C74

Croissants

770.D67

Doughnuts

770.F55

Filo dough

770.F63

Focaccia

770.F73

French toast

770.M83

Muffins

770.P34

Pancakes. Waffles. Crepes

770.P56

Pita bread

770.P58

Pizza

770.P73

Pretzels

Scones see TX770.B55

770.S66

Sourdough bread

770.T65

Tortillas

Waffles see TX770.P34

770.W56

Whole wheat bread

## Cooking

## Baking. Confectionery -- Continued

## Cakes

Including cupcakes

771

General works

771.2

Cake decorating

771.4

Cake pops

Cheesecake see TX773

772

Cookies

773

Desserts, pies, and puddings. Pastry

Including cheesecake

775

Directories of bakers, etc.

776

Bakers' trade publications

778

Bakers' and confectioners' supplies

Including catalogs

Cf. TX657.B34 Baking pans

## Confectionery

Periodicals see TX761

783

General works

## Candy

784

History of candy manufacture

791

General works

792

Juvenile works

793

Candymakers' tools, etc.

Desserts see TX773

Ice creams and ices

795.A1

Periodicals, societies, etc.

795.A2-Z

General works

796.A-Z

Special forms, flavors, etc. A-Z

796.I45

Ice cream sandwiches

799

General special

## Vegetables (Preparation)

Cf. TX392+ Vegetarianism

801

General works

803.A-Z

Special vegetables, A-Z

803.A7

Artichokes

803.A8

Asparagus

Bean curd see TX814.5.T63

803.B4

Beans

803.B66

Broccoli

803.B7

Brussels sprouts

803.C3

Cabbage

803.C35

Carrots

803.C37

Cassava

803.C68

Cowpeas

803.C83

Cucumbers

803.D34

Dandelions



## Cooking

## Vegetables (Preparation)

## Special vegetables, A-Z -- Continued

- 803.E4 Eggplant
  - 803.F85 Fungi
  - 803.G74 Greens
  - 803.L4 Leeks
  - 803.O37 Okra
  - 803.O5 Onions
  - 803.P35 Peanuts
    - Cf. TX814.5.P38 Peanut butter
  - 803.P4 Peas
  - 803.P46 Peppers
  - 803.P8 Potatoes
  - 803.P93 Pumpkin
  - 803.R33 Radishes
  - 803.R58 Rhubarb
  - 803.S6 Soybeans
  - 803.S63 Spaghetti squash
  - 803.S67 Squash
  - 803.S94 Sweet potatoes
  - 803.T37 Taro
  - 803.T6 Tomatoes
    - Cf. TX814.5.T65 Tomato paste
  - 803.T87 Turnips
  - Vegetable spaghetti see TX803.S63
  - 803.Z82 Zucchini
  - 804 Mushrooms
    - Including specific types of mushrooms
  - 804.5 Truffles
  - 805 Pickles
  - 806 Kimch'i
  - 807 Salads
- Cereals (Preparation)
- 808.A1 Periodicals, societies, etc.
  - 808.A2-Z General works
  - 809.A-Z Special, A-Z
    - Cf. TX395 Prepared cereals
    - Cf. TX803.A+ Special vegetables
  - 809.B75 Brown rice
  - 809.B8 Buckwheat
  - 809.B85 Bulgur
  - Corn see TX809.M2
  - 809.G55 Gluten
  - 809.G7 Granola
  - 809.M17 Macaroni. Pasta
  - 809.M2 Maize. Corn

## Cooking

## Cereals (Preparation)

## Special, A-Z -- Continued

|          |                     |
|----------|---------------------|
| 809.N65  | Noodles             |
| 809.O22  | Oat bran            |
| 809.O23  | Oats                |
|          | Pasta see TX809.M17 |
| 809.P67  | Porridge            |
| 809.Q55  | Quinoa              |
| 809.R5   | Rice                |
| 809.R52  | Rice flour          |
| 809.S64  | Spelt               |
| 809.W45  | Wheat               |
| 809.W453 | Wheat germ          |
| 809.W55  | Wild rice           |

## Fruits (Preparation)

## General works

## Special fruits, A-Z

|         |                     |
|---------|---------------------|
| 811     | General works       |
| 813.A-Z | Special fruits, A-Z |
| 813.A6  | Apples              |
| 813.A64 | Apricots            |
| 813.A9  | Avocados            |
| 813.B3  | Bananas             |
| 813.B4  | Berries             |
| 813.B5  | Blueberries         |
| 813.B73 | Breadfruit          |
| 813.C4  | Cherries            |
| 813.C5  | Citrus fruits       |
| 813.C7  | Cranberries         |
| 813.C87 | Currant grapes      |
| 813.D3  | Dates               |
| 813.F5  | Figs                |
| 813.G73 | Grapefruit          |
| 813.G74 | Grapes              |
| 813.G83 | Guava               |
| 813.H83 | Huckleberries       |
| 813.J33 | Jackfruit           |
| 813.K55 | Kiwifruit           |
| 813.L4  | Lemons              |
| 813.L55 | Limes               |
| 813.M35 | Mangos              |
| 813.M44 | Melons              |
| 813.O4  | Olives              |
| 813.O6  | Oranges             |
| 813.P3  | Papaya              |
| 813.P34 | Passion fruit       |
| 813.P38 | Peach palm          |
| 813.P4  | Peaches             |

## Cooking

## Fruits (Preparation)

## Special fruits, A-Z -- Continued

|         |              |
|---------|--------------|
| 813.P43 | Pears        |
| 813.P45 | Persimmons   |
| 813.P5  | Pineapples   |
| 813.P55 | Plums        |
| 813.P64 | Pomegranates |
| 813.P78 | Prunes       |
| 813.R34 | Raisins      |
| 813.R37 | Raspberries  |
| 813.S85 | Stone fruit  |
| 813.S9  | Strawberries |

## Nuts (Preparation)

## General works

## Special nuts, A-Z

|           |           |
|-----------|-----------|
| 814       |           |
| 814.2.A-Z |           |
| 814.2.A25 | Acorns    |
| 814.2.A44 | Almonds   |
| 814.2.C48 | Chestnuts |
| 814.2.C63 | Coconuts  |
| 814.2.H39 | Hazelnuts |
| 814.2.M33 | Macadamia |
| 814.2.P4  | Pecans    |
| 814.2.W3  | Walnuts   |

|           |  |
|-----------|--|
| 814.5.A-Z |  |
|-----------|--|

## Other, A-Z

|  |                           |
|--|---------------------------|
|  | Bean curd see TX814.5.T63 |
|--|---------------------------|

|           |                      |
|-----------|----------------------|
| 814.5.C35 | Carob                |
| 814.5.C63 | Coconut flour        |
| 814.5.F5  | Flowers              |
| 814.5.G4  | Gelatin              |
| 814.5.H45 | Hemp                 |
| 814.5.H66 | Hops                 |
| 814.5.J35 | Jam                  |
| 814.5.K83 | Kudzu                |
| 814.5.L68 | Lotus                |
| 814.5.M63 | Mochi                |
| 814.5.P38 | Peanut butter        |
| 814.5.P66 | Popcorn              |
| 814.5.R53 | Rice cakes           |
| 814.5.R58 | Roselles             |
| 814.5.R6  | Roses                |
| 814.5.S34 | Sago                 |
| 814.5.S44 | Seeds                |
| 814.5.S47 | Sesame               |
| 814.5.T45 | Tempeh               |
| 814.5.T48 | Textured soy protein |
| 814.5.T63 | Tofu                 |

## Cooking

## Other, A-Z -- Continued

814.5.T64

Tomato juice

814.5.T65

Tomato paste

## Beverages

Cf. TP500+ Technology

Cf. TX726+ Cooking using alcoholic beverages

Cf. TX951 Bartenders' manuals

815

General works

817.A-Z

Special beverages, A-Z

Beer see TX726.3

817.C4

Chocolate

817.C5

Cocoa

817.C6

Coffee

Flower teas see TX817.T3

817.F78

Fruit drinks

Herbal teas see TX817.T3

817.L45

Lemonade

817.M5

Milkshakes. Malted milk

817.S636

Smoothies

817.S64

Soft drinks

817.T3

Tea

Including herbal teas, flower teas, etc.

818

## Sandwiches

## Condiments, sauces, etc.

819.A1

General works

819.A3-Z

Special, A-Z

Cf. TX740 Canapes, hor d'oeuvres, etc.

Cf. TX805 Pickles

Cf. TX840.B3 Barbecuing

819.B37

Basil

819.C36

Canola oil

819.C53

Cinnamon

819.C6

Coffee (as a flavor)

819.C65

Coriander

819.C9

Curry

819.F78

Fructose

819.G3

Garlic

819.G53

Ginger

819.G55

Glutamate

819.H4

Herbs

Cf. GT5164 Manners and customs

819.H66

Hot peppers

819.K48

Ketchup

819.L38

Lavender

819.M25

Marijuana

819.M26

Marinades

## Cooking

## Condiments, sauces, etc.

## Special, A-Z -- Continued

- 819.M3 Mayonnaise
- 819.M56 Mint
- 819.M57 Miso
- 819.M65 Molasses
- 819.M87 Mustard
- 819.O4 Olive butter
- 819.O42 Olive oil
- 819.P3 Pepper
- 819.P45 Pestos
- 819.S24 Saffron
- 819.S27 Salad dressing
- 819.S29 Salsas
- 819.S32 Salt
- 819.S58 Soy sauce
- 819.S75 Stevia
- 819.S8 Stocks
- 819.S94 Sugar
- 819.S96 Syrups
- 819.V35 Vanilla
- 819.V5 Vinegar
- 819.W5 White sauce
- 819.W65 Worcestershire sauce
- 820 Cooking for large numbers. Institutional cooking
  - For communal kitchens see TX946
- Other special varieties of cooking
  - For individual foods or ingredients see TX743+
  - Army see UC720+
- 821 Canned foods, etc.
- 823 Camp and picnic. Outdoor cooking
  - Casserole cooking see TX693
- 825 Chafing dish cooking
- 825.5 Clay pot cooking
- 826 Cold-storage foods
  - Cooking for sick soldiers see UH487+
  - Cooking for the sick see RM219+
  - Diabetic cooking see RC662
- 826.5 Dried foods
- 827 Electric cooking
  - Cf. TX657.S5 Electric stoves
  - Cf. TX832 Microwave cooking
- Fast day see TX837+
- 827.5 Fermented food
- 828 Frozen food
- 829 Hot weather

## Cooking

## Other special varieties of cooking -- Continued

- 830 Cold dishes
- 831 Fireless cookers. Hayboxes, etc.
- 832 Microwave cooking
- Navy see VC350+
- 833 Paper-bag cooking
- 833.5 Quick and easy cooking
- 834 Skewer cooking. Kabobs
- 835 Smoked foods
  - Cf. TX609 Smoking of foods
- 835.5 Solar cooking
- 836 Stuffed foods
- Vegetarian. Lenten. Fast day
  - Cf. TX391+ Vegetables
- 837 General works
- 838 Meat substitutes
- 840.A-Z Other special, A-Z
- 840.B3 Barbecue cooking
- 840.B5 Blender recipes
- 840.C65 Convection oven cooking
- 840.D88 Dutch oven cooking
- 840.F5 Fireplace cooking
- 840.F6 Food processor recipes
- 840.F76 Food truck cooking
- 840.J84 Juicer recipes
- Lunchbox cooking see TX735
- 840.M35 Mandoline recipes
- Marine cooking see TX840.M7
- 840.M5 Mixer recipes
  - For smoothies see TX817.S636
- 840.M6 Mobile home cooking
- 840.M7 Motorboat cooking. Marine cooking
- 840.O53 One-dish meals
- 840.P7 Pressure cooker recipes
- 840.S55 Skillet cooking
- 840.T63 Toaster oven cooking
- Trailer cooking see TX840.M6
- 840.W65 Wok cooking
  - Cf. TX724.5.C5 Chinese cooking

## Dining-room service

- 851 General works
- Dining room
- 855 General works
- 857 Arrangement
- 859 Decoration
- Table

## Dining-room service

## Table -- Continued

- 871 General works
- 873 Arrangement
- 877 Furnishings
- 879 Decoration
- 881 Serving
- 885 Carving

## Hospitality industry. Hotels, clubs, restaurants, etc. Food service

- Cf. GT3770+ Manners and customs
- Cf. GV198.945+ Farm vacations, dude ranches, etc.
- Cf. GV854.35+ Ski resorts
- Cf. NA7800+ Architecture
- Cf. RA794 Health resorts
- Cf. SH405 Fishing resorts

- 901 Periodicals, societies, etc.

- 905 Dictionaries and encyclopedias

## Directories

Including restaurant and hotel guidebooks, etc.

For directories of chefs see TX650

- 907 General works

## By region or country

## United States

- 907.2 General works

- 907.3.A-Z By region or state, A-Z

Subarrange each state by Table T4a

- 907.5.A-Z Other regions or countries, A-Z

Subarrange each country by Table T4a

## History

- 908 General works

## Special countries

## United States

- 909.A1 Periodicals, societies, etc.

- 909.A2-Z General works

- 909.2.A-Z By region or state, A-Z

Subarrange each state by Table T4a

## Other countries

- 910.A1 Europe

- 910.A2-Z By region or country, A-Z

Special hotels see TX941.A+

Special restaurants see TX945.5.A+

Special taverns, barrooms, etc. see TX950+

## Biography

- 910.3 Collective

- 910.5.A-Z Individual, A-Z

- 911 General works

Hospitality industry. Hotels, clubs, restaurants, etc. Food service -- Continued

911.2

General special

911.3.A-Z

Special topics, A-Z

Accounting see HF5686.H75

Appraisal see TX911.3.V34

Bookkeeping see HF5686.H75

911.3.C3

Cashiering

911.3.C6

Commercial correspondence

Concierge services see TX911.3.C63

911.3.C63

Concierges and concierge service

911.3.C65

Cost control

911.3.C8

Customer relations

911.3.E4

Electronic data processing

911.3.E45

Energy consumption

Equipment and supplies see TX912

911.3.E84

Ethics

911.3.F5

Finance

Fires and fire prevention in hotels see TH9445.H75

Fires and fire prevention in restaurants see TH9445.R44

Food service see TX943+

911.3.F75

Front desk

Housekeeping see TX928

911.3.I5

Inventory control

911.3.J65

Job descriptions

911.3.L27

Labor productivity

911.3.L3

Labor turnover

911.3.L62

Location

Maintenance and repair see TX928

911.3.M27

Management

911.3.M3

Marketing

911.3.M33

Mathematics

911.3.M45

Menus. Wine lists

911.3.P4

Personnel management

911.3.P46

Planning

911.3.P7

Prices

911.3.P77

Public relations

911.3.P8

Purchasing

911.3.Q34

Quality control

911.3.R3

Rates

911.3.R47

Reservations

911.3.R48

Restrooms

911.3.R57

Risk management

Room service see TX943+

911.3.S24

Safety measures

911.3.S3

Sanitation

911.3.S4

Security



- Hospitality industry. Hotels, clubs, restaurants, etc. Food service  
Special topics, A-Z -- Continued  
Site selection see TX911.3.L62  
911.3.S73 Statistical methods  
911.3.S8 Stockroom keeping  
911.3.T32 Table setting and decoration  
911.3.T73 Training  
911.3.V34 Valuation and appraisal  
911.3.V62 Vocational guidance  
Cf. TX652.4 Vocational guidance for cooking in general  
Wine lists see TX911.3.M45  
911.5 Study and teaching  
912 Furnishings, equipment, etc.  
(913-917) Law and legislation. Inspectors' reports  
see class K  
921 Stewards' manuals. Caterers' manuals. Kitchen control  
925 Dining room service. Table service. Wine service  
Including manuals for waiters, waitresses, bussing attendants,  
etc.  
926 Bellmen, doormen, elevator operators  
927 Butlers  
928 Housekeeping, maintenance, repair  
930 Social executives, hostesses, etc.  
(931) General special  
see TX911.2  
941.A-Z Special hotels and hotel chains. By name, A-Z  
Food service  
Including room service  
For food service in the transportation industry see  
TA1227  
For special topics see TX911.3.A+  
943 General works  
Restaurants, cafeterias, tearooms, etc.  
For directories and guidebooks see TX907+  
Cf. HE7581.5 Cybercafes  
Cf. TP635 Soda fountains  
945 General works  
945.2 School lunchrooms, cafeterias, etc.  
945.3 Fast food restaurants  
945.4 Ethnic restaurants  
Including individual types, e.g. Chinese restaurants  
945.5.A-Z Special restaurants. By name, A-Z  
946 Mass feeding, communal kitchens, canteens, etc.  
Industrial feeding. Factory canteens  
946.5.A1 Periodicals. Collections. Congresses  
946.5.A3-Z General works

TX

## HOME ECONOMICS

TX

- Taverns, barrooms, saloons
- 950 Periodicals, societies, etc.
  - Biography of bartenders, saloonkeepers, etc.
- 950.5.A1 Collective
- 950.5.A2-Z Individual, A-Z
- 950.53 Directories
- History
- 950.54 General works
  - By region or country
    - United States
- 950.56 General works
- 950.57.A-Z By region or state, A-Z
- 950.59.A-Z Other regions or countries, A-Z
- 950.7 General works
- 951 Bartenders' manuals and recipes
  - Cf. TX815+ Non-alcoholic beverages
- Furnishings, equipment, etc. Housekeeping
- 952 General works
- 953 Bars and bar supplies
- Building operation and housekeeping
- 955 General works
- Apartment houses
- 957 General works
- 958 Janitor service
  - Cf. TX339 Household janitor service
- 959 Other services
  - Including elevator service
- 960 Housing developments
- 980 Office buildings
- 985 Public buildings
- Mobile home living
  - Cf. GV198.5+ Mobile home living
- 1100 Periodicals, societies, etc.
- 1105 General works
- 1106 Juvenile works
  - By region or country
    - United States
- 1107 General works
- 1107.2.A-Z By region or state, A-Z
- 1107.4.A-Z Other regions or countries, A-Z
- 1110 Recreational vehicle living

|         |   |
|---------|---|
|         | History   |
| 15      | General works   |
| 16      | Ancient   |
| 17      | Medieval  |
| 18      | Modern  |
| 19      | 19th century  |
| 20      | 20th century  |
|         | Special countries   |
|         | Numbers that have been provided for "Cities or other special, A-Z,"<br>"Local or special, A-Z," or "Provinces or other special, A-Z" may<br>be used for local subdivision, or for special entities such as<br>canals, rivers, harbors, railroads, bridges, etc., as appropriate |
|         | America   |
| 21      | General works   |
|         | North America   |
| 22      | General works   |
|         | United States   |
| 23      | General works   |
| 23.1    | Eastern states. Atlantic coast  |
| 23.15   | New England   |
| 23.2    | Appalachian region  |
| 23.3    | Great Lakes region  |
| 23.4    | Midwest. Mississippi Valley   |
| 23.5    | South. Gulf states  |
| 23.6    | West  |
| 23.7    | Northwest   |
| 23.8    | Pacific coast   |
| 23.9    | Southwest   |
| 24.A-.W | States, A-W   |
|         | e.g.  |
| 24.A4   | Alaska  |
| 24.H3   | Hawaii  |
| 25.A-Z  | Cities or other special, A-Z  |
|         | Canada  |
| 26      | General works   |
| 27.A-Z  | Provinces or other special, A-Z   |
| 27.5    | Latin America   |
|         | Mexico  |
| 28      | General works   |
| 29.A-Z  | Local or special, A-Z   |
|         | Central America   |
| 30      | General works   |
| 31.A-Z  | Special countries, A-Z  |
| 31.5    | Caribbean Area  |
|         | West Indies   |
| 32      | General works   |
| 33.A-Z  | Special islands, A-Z  |

- Special countries
- America -- Continued
- South America
- 34 General works
- Argentina
- 36 General works
- 37.A-Z Local or special, A-Z
- Bolivia
- 38 General works
- 39.A-Z Local or special, A-Z
- Brazil
- 41 General works
- 42.A-Z Local or special, A-Z
- Chile
- 43 General works
- 44.A-Z Local or special, A-Z
- Colombia
- 45 General works
- 46.A-Z Local or special, A-Z
- 47 Ecuador
- 48 Guyana
- 49 Suriname
- 50 French Guiana
- 51 Paraguay
- 52 Peru
- 53 Uruguay
- 54 Venezuela
- Europe
- 55 General works
- Great Britain. England
- 57 General works
- 58.A-Z English counties or regions, A-Z
- Ireland
- 59 General works
- 59.2 Irish Free State. Ireland (Eire)
- 59.3 Northern Ireland
- 60.A-Z Special counties, A-Z
- Scotland
- 61 General works
- 62.A-Z Special counties, A-Z
- 63 Wales
- 64.A-Z Cities or other special, A-Z
- Austria
- 65 General works
- 65.2.A-Z Local or special, A-Z
- Czechoslovakia
- 65.3 General works

|          |                               |
|----------|-------------------------------|
|          | Special countries             |
|          | Europe                        |
|          | Czechoslovakia -- Continued   |
| 65.4.A-Z | Local or special, A-Z         |
|          | Hungary                       |
| 65.5     | General works                 |
| 65.9.A-Z | Special counties, A-Z         |
| 66.A-Z   | Cities or other special, A-Z  |
|          | Belgium                       |
| 67       | General works                 |
| 68.A-Z   | Local or special, A-Z         |
|          | Denmark                       |
| 69       | General works                 |
| 70.A-Z   | Local or special, A-Z         |
|          | France                        |
| 71       | General works                 |
| 72.A-Z   | Local or special, A-Z         |
| 72.5     | Colonies (Collectively)       |
|          | Germany                       |
| 73       | General works                 |
| 73.1     | East Germany. Eastern Germany |
| 73.2     | Baden-Württemberg             |
| 73.3     | Bavaria                       |
| 73.4     | Hesse                         |
| 73.5     | Prussia                       |
| 73.6     | Saxony                        |
| 73.7     | North Rhine-Westphalia        |
| 73.9.A-Z | Other states, A-Z             |
| 74.A-Z   | Cities or other special, A-Z  |
| 74.5     | Colonies (Collectively)       |
|          | Greece                        |
| 75       | General works                 |
| 76.A-Z   | Local or special, A-Z         |
|          | Netherlands                   |
| 77       | General works                 |
| 78.A-Z   | Local or special, A-Z         |
|          | Italy                         |
| 79       | General works                 |
| 80.A-Z   | Local or special, A-Z         |
| 80.5     | Malta                         |
|          | Norway                        |
| 81       | General works                 |
| 82.A-Z   | Local or special, A-Z         |
|          | Portugal, Azores, etc.        |
| 83       | General works                 |
| 84.A-Z   | Local or special, A-Z         |
| 84.5     | Colonies (Collectively)       |

- Special countries
- Europe -- Continued
  - Russia in Europe
    - 85 General works
    - 86.A-Z Local or special, A-Z
  - Slovakia
    - 86.6 General works
    - 86.7.A-Z Local or special, A-Z
  - Spain
    - 87 General works
    - 88.A-Z Local or special, A-Z
  - 88.5 Scandinavia
  - Sweden
    - 89 General works
    - 90.A-Z Local or special, A-Z
  - Switzerland
    - 91 General works
    - 92.A-Z Local or special, A-Z
- Other regions and countries, A-Z
  - 95.A2 Balkan Peninsula
  - 95.A38 Albania
  - 95.A44 Alps
  - 95.A48 Andorra
  - 95.B3 Baltic Sea
  - 95.B43 Belarus
  - 95.B45 Benelux countries
  - 95.B9 Bulgaria
  - 95.C37 Carpathian Mountains
  - 95.D35 Danube River
  - 95.F5 Finland
  - 95.I43 Iceland
  - 95.L285 Lapland
  - 95.L37 Latvia
  - 95.L78 Lithuania
  - 95.L9 Luxemburg
  - 95.M4 Mediterranean Region
  - 95.N67 North Sea
  - 95.P7 Poland
  - 95.P75 Pomerania (Poland and Germany)
  - 95.R48 Rhine River
  - 95.R6 Romania
  - 95.S55 Slovenia
  - 95.T48 Thrace
  - 95.U95 Ukraine
  - 95.Y8 Yugoslavia
- Asia
  - 99 General works

- Special countries  
Asia -- Continued  
China  
For Hong Kong see T1 113.H85  
For Macau see T1 113.M2  
101 General works  
102.A-Z Local or special, A-Z  
Taiwan  
102.5 General works  
102.6.A-Z Local or special, A-Z  
South Asia  
102.9 General works  
India  
103 General works  
104.A-Z Local or special, A-Z  
Pakistan  
104.5 General works  
104.6.A-Z Local or special, A-Z  
Bangladesh  
104.65 General works  
104.66.A-Z Local or special, A-Z  
Sri Lanka. Ceylon  
104.7 General works  
104.8.A-Z Local or special, A-Z  
Japan  
105 General works  
106.A-Z Local or special, A-Z  
Korea  
Including South Korea  
106.5 General works  
106.6.A-Z Local or special, A-Z  
North Korea  
106.7 General works  
106.8.A-Z Local or special, A-Z  
Iran. Persia  
107 General works  
108.A-Z Local or special, A-Z  
Russia in Asia. Siberia  
109 General works  
110.A-Z Local or special, A-Z  
Turkey. Asia Minor  
111 General works  
112.A-Z Local or special, A-Z  
113.A-Z Other divisions of Asia, A-Z  
113.A3 Afghanistan  
113.B47 Bhutan  
113.B54 Borneo

## Special countries

## Asia

## Other divisions of Asia -- Continued

|          |                                |
|----------|--------------------------------|
| 113.B7   | Brunei                         |
| 113.B8   | Burma. Myanmar                 |
| 113.C16  | Cambodia                       |
| 113.C35  | Central Asia                   |
| 113.C9   | Cyprus                         |
| 113.G39  | Gaza Strip                     |
| 113.H54  | Himalaya Mountains             |
| 113.H85  | Hong Kong                      |
| 113.I55  | Indonesia                      |
| 113.I7   | Iraq                           |
| 113.I75  | Israel                         |
| 113.J6   | Jordan                         |
| 113.K38  | Kazakhstan                     |
| 113.K85  | Kuwait                         |
| 113.L28  | Laos                           |
| 113.L4   | Lebanon                        |
| 113.M2   | Macau                          |
| 113.M318 | Malaya                         |
| 113.M32  | Malaysia                       |
| 113.M45  | Mekong River Valley            |
|          | Myanmar see T1 113.B8          |
| 113.N4   | Nepal                          |
| 113.P6   | Philippines                    |
| 113.Q36  | Qatar                          |
| 113.S33  | Saudi Arabia                   |
| 113.S53  | Singapore                      |
| 113.S6   | Southeast Asia                 |
| 113.S94  | Syria                          |
| 113.T48  | Thailand                       |
| 113.U54  | United Arab Emirates           |
| 113.V5   | Vietnam                        |
| 113.W48  | West Bank                      |
| 113.Y45  | Yemen                          |
| 113.5    | Middle East. Near East         |
| 114      | Arab countries                 |
| 114.5    | Islamic countries              |
|          | Africa                         |
| 115      | General works                  |
|          | Egypt                          |
| 117      | General works                  |
| 118.A-Z  | Local or special, A-Z          |
| 119.A-Z  | Other divisions of Africa, A-Z |
| 119.A4   | Algeria                        |
| 119.A5   | Angola                         |



## Special countries

## Africa

## Other divisions of Africa, A-Z -- Continued

|         |   |
|---------|---|
| 119.B57 | Botswana                                  |
|         | Burkina Faso see T1 119.U66               |
| 119.B85 | Burundi                                   |
| 119.C17 | Cameroon                                  |
| 119.C42 | Central Africa                            |
| 119.C43 | Central African Republic                  |
| 119.C75 | Congo (Brazzaville)                       |
|         | Congo (Democratic Republic) see T1 119.Z3 |
|         | Côte d'Ivoire see T1 119.I9               |
| 119.D3  | Dahomey                                   |
| 119.D55 | Djibouti                                  |
| 119.E18 | East Africa                               |
| 119.E19 | Eastern Africa                            |
| 119.E8  | Ethiopia                                  |
| 119.F82 | French-speaking Equatorial Africa         |
| 119.F83 | French-speaking West Africa               |
| 119.G23 | Gabon                                     |
| 119.G45 | Ghana                                     |
| 119.G92 | Guinea                                    |
| 119.G94 | Guinea-Bissau                             |
| 119.I9  | Ivory Coast. Côte d'Ivoire                |
| 119.K4  | Kenya                                     |
| 119.L45 | Lesotho                                   |
| 119.L49 | Liberia                                   |
| 119.L74 | Libya                                     |
| 119.M28 | Madagascar                                |
| 119.M3  | Malawi                                    |
| 119.M34 | Mali                                      |
| 119.M39 | Mauritania                                |
| 119.M6  | Morocco                                   |
| 119.M85 | Mozambique                                |
|         | Namibia see T1 119.S68                    |
| 119.N53 | Niger                                     |
| 119.N54 | Nigeria                                   |
| 119.N6  | Nile River Valley                         |
| 119.R45 | Rhodesia, Southern. Zimbabwe              |
| 119.R9  | Rwanda                                    |
| 119.S18 | Sahel                                     |
| 119.S38 | Senegal                                   |
| 119.S5  | Sierra Leone                              |
| 119.S59 | Somalia                                   |
| 119.S6  | South Africa                              |
| 119.S64 | Southern Africa                           |
| 119.S68 | Southwest Africa. Namibia                 |

## Special countries

## Africa

## Other divisions of Africa, A-Z -- Continued

- 119.S73 Sub-Saharan Africa
- 119.S74 Sudan
- 119.S87 Swaziland
- 119.T35 Tanzania
- 119.T64 Togo
- 119.T8 Tunisia
- 119.U4 Uganda
- 119.U66 Upper Volta
- 119.W48 West Africa
- 119.Z3 Zaire. Congo (Democratic Republic)
- 119.Z34 Zambia
- Zimbabwe see T1 119.R45

## Indian Ocean islands

- 120 General works
- 120.5.A-Z Special islands, A-Z
- 120.5.M38 Mauritius
- 120.5.M39 Mayotte
- 120.5.R48 Réunion

## Australasia

- 120.7 General works
- Australia
- 121 General works
- 122.A-Z Local or special, A-Z
- New Zealand
- 122.5 General works
- 122.6.A-Z Local or special, A-Z
- 122.7 Papua New Guinea

## Pacific Islands

- 123 General works
- 124.A-Z By island, A-Z

## Arctic regions

- 125 General works
- 125.5 Greenland

## Antarctica

- 126
- 126.5 Tropics

- 127 Developing countries

Numbers that have been provided for "Cities or other special, A-Z,"  
 "Local or special, A-Z," or "Provinces or other special, A-Z" may  
 be used for local subdivision, or for special entities such as  
 canals, rivers, harbors, railroads, bridges, etc., as appropriate

### America

- 21 General works
- North America
- 22 General works
- United States
- 23 General works
- 23.1 Eastern states. Atlantic coast
- 23.15 New England
- 23.2 Appalachian region
- 23.3 Great Lakes region
- 23.4 Midwest. Mississippi Valley
- 23.5 South. Gulf states
- 23.6 West
- 23.7 Northwest
- 23.8 Pacific coast
- 23.9 Southwest
- 24.A-.W States, A-W
- e.g.
- 24.A4 Alaska
- 24.H3 Hawaii
- 25.A-Z Cities or other special, A-Z
- Canada
- 26 General works
- 27.A-Z Provinces or other special, A-Z
- 27.5 Latin America
- Mexico
- 28 General works
- 29.A-Z Local or special, A-Z
- Central America
- 30 General works
- 31.A-Z Special countries, A-Z
- West Indies
- 32 General works
- 33.A-Z Special islands, A-Z
- South America
- 34 General works
- Argentina
- 36 General works
- 37.A-Z Local or special, A-Z
- Bolivia
- 38 General works
- 39.A-Z Local or special, A-Z
- Brazil

## America

## South America

## Brazil -- Continued

- 41 General works
- 42.A-Z Local or special, A-Z
- Chile
- 43 General works
- 44.A-Z Local or special, A-Z
- Colombia
- 45 General works
- 46.A-Z Local or special, A-Z
- 47 Ecuador
- 48 Guyana
- 49 Suriname
- 50 French Guiana
- 51 Paraguay
- 52 Peru
- 53 Uruguay
- 54 Venezuela

## Europe

- 55 General works
- Great Britain. England
- 57 General works
- 58.A-Z English counties or regions, A-Z
- Ireland
- 59 General works
- 59.2 Irish Free State. Ireland (Eire)
- 59.3 Northern Ireland
- 60.A-Z Special counties, A-Z
- Scotland
- 61 General works
- 62.A-Z Special counties, A-Z
- 63 Wales
- 64.A-Z Cities or other special, A-Z
- Austria
- 65 General works
- 65.2.A-Z Local or special, A-Z
- Czechoslovakia. Czech Republic
- 65.3 General works
- 65.4.A-Z Local or special, A-Z
- Hungary
- 65.5 General works
- 65.9.A-Z Special counties, A-Z
- 66.A-Z Cities or other special, A-Z
- Belgium
- 67 General works
- 68.A-Z Local or special, A-Z

## Europe -- Continued

## Denmark

- 69 General works
- 70.A-Z Local or special, A-Z

## France

- 71 General works
- 72.A-Z Local or special, A-Z
- 72.5 Colonies (Collectively)

## Germany

- 73 General works
- 73.1 East Germany. Eastern Germany
- 73.2 Baden-Württemberg
- 73.3 Bavaria
- 73.4 Hesse
- 73.5 Prussia
- 73.6 Saxony
- 73.7 North Rhine-Westphalia
- 73.9.A-Z Other states, A-Z
- 74.A-Z Cities or other special, A-Z
- 74.5 Colonies (Collectively)

## Greece

- 75 General works
- 76.A-Z Local or special, A-Z

## Netherlands

- 77 General works
- 78.A-Z Local or special, A-Z

## Italy

- 79 General works
- 80.A-Z Local or special, A-Z

80.5

## Malta

## Norway

- 81 General works
- 82.A-Z Local or special, A-Z

## Portugal, Azores, etc.

- 83 General works
- 84.A-Z Local or special, A-Z
- 84.5 Colonies (Collectively)

## Russia in Europe

- 85 General works
- 86.A-Z Local or special, A-Z

## Slovakia

- 86.6 General
- 86.7.A-Z Local or special, A-Z

## Spain

- 87 General works
- 88.A-Z Local or special, A-Z

88.5

## Scandinavia

## Europe -- Continued

## Sweden

- 89 General works
- 90.A-Z Local or special, A-Z

## Switzerland

- 91 General works
- 92.A-Z Local or special, A-Z

- 95.A-Z Other regions and countries, A-Z

- 95.A2 Balkan Peninsula

- 95.A38 Albania

- 95.A44 Alps

- 95.A48 Andorra

- 95.B3 Baltic Sea

- 95.B43 Belarus

- 95.B45 Benelux countries

- 95.B9 Bulgaria

- 95.C37 Carpathian Mountains

- 95.D35 Danube River

- 95.E88 Estonia

- 95.F5 Finland

- 95.I43 Iceland

- 95.L285 Lapland

- 95.L37 Latvia

- 95.L78 Lithuania

- 95.L9 Luxemburg

- 95.M4 Mediterranean Region

- 95.M66 Montenegro

- 95.N67 North Sea

- 95.P7 Poland

- 95.P75 Pomerania (Poland and Germany)

- 95.R48 Rhine River

- 95.R6 Romania

- 95.S47 Serbia

- 95.S55 Slovenia

- 95.T38 Tatra Mountains (Slovakia and Poland)

- 95.T48 Thrace

- 95.U95 Ukraine

- 95.Y8 Yugoslavia

## Asia

- 99 General works

## China

For Hong Kong see T1a 113.H85

For Macau see T1a 113.M2

- 101 General works

- 102.A-Z Local or special, A-Z

## Taiwan

- 102.5 General works

|            |                              |
|------------|------------------------------|
|            | Asia                         |
|            | Taiwan -- Continued          |
| 102.6.A-Z  | Local or special, A-Z        |
|            | South Asia                   |
| 102.9      | General works                |
|            | India                        |
| 103        | General works                |
| 104.A-Z    | Local or special, A-Z        |
|            | Pakistan                     |
| 104.5      | General works                |
| 104.6.A-Z  | Local or special, A-Z        |
|            | Bangladesh                   |
| 104.65     | General works                |
| 104.66.A-Z | Local or special, A-Z        |
|            | Sri Lanka. Ceylon            |
| 104.7      | General works                |
| 104.8.A-Z  | Local or special, A-Z        |
|            | Japan                        |
| 105        | General works                |
| 106.A-Z    | Local or special, A-Z        |
|            | Korea                        |
|            | Including South Korea        |
| 106.5      | General works                |
| 106.6.A-Z  | Local or special, A-Z        |
|            | North Korea                  |
| 106.7      | General works                |
| 106.8.A-Z  | Local or special, A-Z        |
|            | Iran. Persia                 |
| 107        | General works                |
| 108.A-Z    | Local or special, A-Z        |
|            | Russia in Asia. Siberia      |
| 109        | General works                |
| 110.A-Z    | Local or special, A-Z        |
|            | Turkey. Asia Minor           |
| 111        | General works                |
| 112.A-Z    | Local or special, A-Z        |
| 113.A-Z    | Other divisions of Asia, A-Z |
| 113.A3     | Afghanistan                  |
| 113.A98    | Azerbaijan                   |
| 113.B54    | Borneo                       |
| 113.B7     | Brunei                       |
| 113.B8     | Burma. Myanmar               |
| 113.C16    | Cambodia                     |
| 113.C9     | Cyprus                       |
| 113.G39    | Gaza Strip                   |
| 113.H54    | Himalaya Mountains           |
| 113.H85    | Hong Kong                    |

## Asia

## Other divisions of Asia -- Continued

- 113.I55 Indonesia
  - 113.I7 Iraq
  - 113.I75 Israel
  - 113.J6 Jordan
  - 113.K85 Kuwait
  - 113.L28 Laos
  - 113.L4 Lebanon
  - 113.M2 Macau
  - 113.M318 Malaya
  - 113.M32 Malaysia
  - 113.M45 Mekong River Valley
  - Myanmar see T1a 113.B8
  - 113.N4 Nepal
  - 113.O43 Oman
  - 113.P35 Persian Gulf Region. Persian Gulf States
  - 113.P6 Philippines
  - 113.Q36 Qatar
  - 113.S33 Saudi Arabia
  - 113.S53 Singapore
  - 113.S6 Southeast Asia
  - 113.S94 Syria
  - 113.T35 Tajikistan
  - 113.T48 Thailand
  - 113.U54 United Arab Emirates
  - 113.V5 Vietnam
  - 113.W48 West Bank
  - 113.Y45 Yemen (People's Democratic Republic)
  - 113.5 Middle East. Near East
  - 114 Arab countries
  - 114.5 Islamic countries
- Africa
- 115 General works
  - Egypt
  - 117 General works
  - 118.A-Z Local or special, A-Z
  - 119.A-Z Other divisions of Africa, A-Z
  - 119.A4 Algeria
  - 119.A5 Angola
  - 119.B57 Botswana
  - 119.B85 Burundi
  - 119.C17 Cameroon
  - 119.C42 Central Africa
  - 119.C43 Central African Republic
  - 119.C75 Congo (Brazzaville)
  - Congo (Democratic Republic) see T1a 119.Z3



## Africa

## Other divisions of Africa, A-Z -- Continued

|         |                                   |
|---------|-----------------------------------|
|         | Côte d'Ivoire see T1a 119.I9      |
| 119.D3  | Dahomey                           |
| 119.D55 | Djibouti                          |
| 119.E18 | East Africa                       |
| 119.E19 | Eastern Africa                    |
| 119.E8  | Ethiopia                          |
| 119.F82 | French-speaking Equatorial Africa |
| 119.F83 | French-speaking West Africa       |
| 119.G23 | Gabon                             |
| 119.G45 | Ghana                             |
| 119.G92 | Guinea                            |
| 119.G94 | Guinea-Bissau                     |
| 119.I9  | Ivory Coast. Côte d'Ivoire        |
| 119.K4  | Kenya                             |
| 119.L45 | Lesotho                           |
| 119.L49 | Liberia                           |
| 119.L74 | Libya                             |
| 119.M28 | Madagascar                        |
| 119.M3  | Malawi                            |
| 119.M34 | Mali                              |
| 119.M39 | Mauritania                        |
| 119.M6  | Morocco                           |
| 119.M85 | Mozambique                        |
|         | Namibia see T1a 119.S68           |
| 119.N53 | Niger                             |
| 119.N54 | Nigeria                           |
| 119.N6  | Nile River Valley                 |
| 119.R45 | Rhodesia, Southern. Zimbabwe      |
| 119.R9  | Rwanda                            |
| 119.S18 | Sahel                             |
| 119.S38 | Senegal                           |
| 119.S5  | Sierra Leone                      |
| 119.S59 | Somalia                           |
| 119.S6  | South Africa                      |
| 119.S64 | Southern Africa                   |
| 119.S68 | Southwest Africa. Namibia         |
| 119.S73 | Sub-Saharan Africa                |
| 119.S74 | Sudan                             |
| 119.S87 | Swaziland                         |
| 119.T35 | Tanzania                          |
| 119.T64 | Togo                              |
| 119.T8  | Tunisia                           |
| 119.U4  | Uganda                            |
| 119.U66 | Upper Volta                       |
| 119.W48 | West Africa                       |

- Africa
  - Other divisions of Africa, A-Z -- Continued
  - 119.Z3 Zaire. Congo (Democratic Republic)
  - 119.Z34 Zambia
  - Zimbabwe see T1a 119.R45
- Indian Ocean islands
  - 120 General works
  - 120.5.A-Z Special islands, A-Z
  - 120.5.M38 Mauritius
  - 120.5.R48 Réunion
- Australasia
  - 120.7 General works
  - Australia
    - 121 General works
    - 122.A-Z Local or special, A-Z
  - New Zealand
    - 122.5 General works
    - 122.6.A-Z Local or special, A-Z
  - 122.7 Papua New Guinea
- Pacific Islands
  - 123 General works
  - 124.A-Z By island, A-Z
- Arctic regions
  - 125 General works
  - 125.5 Greenland
- Antarctica
  - 126
- Tropics
  - 126.5
- Developing countries
  - 127

Numbers that have been provided for "Cities or other special, A-Z,"  
 "Local or special, A-Z," or "Provinces or other special, A-Z" may  
 be used for local subdivision, or for special entities such as  
 canals, rivers, harbors, railroads, bridges, etc., as appropriate

# America

- 21 General works
- North America
- 22 General works
- United States
- 23 General works
- 23.1 Eastern states. Atlantic coast
- 23.15 New England
- 23.2 Appalachian region
- 23.3 Great Lakes region
- 23.4 Midwest. Mississippi Valley
- 23.5 South. Gulf states
- 23.6 West
- 23.7 Northwest
- 23.8 Pacific coast
- 23.9 Southwest
- 24.A-.W States, A-W
- e.g.
- 24.A4 Alaska
- 24.H3 Hawaii
- 25.A-Z Cities or other special, A-Z
- Canada
- 26 General works
- 27.A-Z Provinces or other special, A-Z
- 27.5 Latin America
- Mexico
- 28 General works
- 29.A-Z Local or special, A-Z
- Central America
- 30 General works
- 31.A-Z Special countries, A-Z
- West Indies
- 32 General works
- 33.A-Z Special islands, A-Z
- South America
- 34 General works
- Argentina
- 36 General works
- 37.A-Z Local or special, A-Z
- Bolivia
- 38 General works
- 39.A-Z Local or special, A-Z
- Brazil

- America
  - South America
    - Brazil -- Continued
      - 41 General works
      - 42.A-Z Local or special, A-Z
    - Chile
      - 43 General works
      - 44.A-Z Local or special, A-Z
    - Colombia
      - 45 General works
      - 46.A-Z Local or special, A-Z
    - Ecuador
    - Guyana
    - Suriname
    - French Guiana
    - Paraguay
    - Peru
    - Uruguay
    - Venezuela
  - Europe
    - 55 General works
    - Great Britain. England
      - 57 General works
      - 58.A-Z English counties or regions, A-Z
    - Ireland
      - 59 General works
      - 59.2 Irish Free State. Ireland (Eire)
      - 59.3 Northern Ireland
      - 60.A-Z Special counties, A-Z
    - Scotland
      - 61 General works
      - 62.A-Z Special counties, A-Z
    - Wales
      - 63 Cities or other special, A-Z
  - Austria
    - 65 General works
    - 65.2.A-Z Local or special, A-Z
  - Czechoslovakia
    - 65.3 General works
    - 65.4.A-Z Local or special, A-Z
  - Hungary
    - 65.5 General works
    - 65.9.A-Z Special counties, A-Z
    - 66.A-Z Cities or other special, A-Z
  - Belgium
    - 67 General works
    - 68.A-Z Local or special, A-Z

## Europe -- Continued

## Denmark

- 69 General works
- 70.A-Z Local or special, A-Z

## France

- 71 General works
- 72.A-Z Local or special, A-Z
- 72.5 Colonies (Collectively)

## Germany

- 73 General works
- 73.1 East Germany. Eastern Germany
- 73.2 Baden-Württemberg
- 73.3 Bavaria
- 73.4 Hesse
- 73.5 Prussia
- 73.6 Saxony
- 73.7 North Rhine-Westphalia
- 73.9.A-Z Other states, A-Z
- 74.A-Z Cities or other special, A-Z
- 74.5 Colonies (Collectively)

## Greece

- 75 General works
- 76.A-Z Local or special, A-Z

## Netherlands

- 77 General works
- 78.A-Z Local or special, A-Z

## Italy

- 79 General works
- 80.A-Z Local or special, A-Z

80.5

## Malta

## Norway

- 81 General works
- 82.A-Z Local or special, A-Z

## Portugal, Azores, etc.

- 83 General works
- 84.A-Z Local or special, A-Z
- 84.5 Colonies (Collectively)

## Russia in Europe

- 85 General works
- 86.A-Z Local or special, A-Z

## Slovakia

- 86.6 General works
- 86.7.A-Z Local or special, A-Z

## Spain

- 87 General works
- 88.A-Z Local or special, A-Z

88.5

## Scandinavia

## Europe -- Continued

## Sweden

- 89 General works
- 90.A-Z Local or special, A-Z

## Switzerland

- 91 General works
- 92.A-Z Local or special, A-Z

- 95.A-Z Other regions and countries, A-Z

- 95.A2 Balkan Peninsula

- 95.A38 Albania

- 95.A44 Alps

- 95.A48 Andorra

- 95.B3 Baltic Sea

- 95.B43 Belarus

- 95.B45 Benelux countries

- 95.B9 Bulgaria

- 95.C37 Carpathian Mountains

- 95.D35 Danube River

- 95.F5 Finland

- 95.I43 Iceland

- 95.L285 Lapland

- 95.L37 Latvia

- 95.L78 Lithuania

- 95.L9 Luxemburg

- 95.M4 Mediterranean Region

- 95.N67 North Sea

- 95.P7 Poland

- 95.P75 Pomerania (Poland and Germany)

- 95.R48 Rhine River

- 95.R6 Romania

- 95.S55 Slovenia

- 95.T48 Thrace

- 95.U95 Ukraine

- 95.Y8 Yugoslavia

## Asia

- 99 General works

## China

For Hong Kong see T1b 113.H85

For Macau see T1b 113.M2

- 101 General works

- 102.A-Z Local or special, A-Z

## Taiwan

- 102.5 General works

- 102.6.A-Z Local or special, A-Z

## South Asia

- 102.9 General works

## India

## Asia

## South Asia

## India -- Continued

- 103 General works
- 104.A-Z Local or special, A-Z
- Pakistan
- 104.5 General works
- 104.6.A-Z Local or special, A-Z
- Bangladesh
- 104.65 General works
- 104.66.A-Z Local or special, A-Z
- Sri Lanka. Ceylon
- 104.7 General works
- 104.8.A-Z Local or special, A-Z

## Japan

- 105 General works
- 106.A-Z Local or special, A-Z

## Korea

## Including South Korea

- 106.5 General works
- 106.6.A-Z Local or special, A-Z

## North Korea

- 106.7 General works
- 106.8.A-Z Local or special, A-Z

## Iran. Persia

- 107 General works
- 108.A-Z Local or special, A-Z

## Russia in Asia. Siberia

- 109 General works
- 110.A-Z Local or special, A-Z

## Turkey. Asia Minor

- 111 General works
- 112.A-Z Local or special, A-Z

## Other divisions of Asia, A-Z

- 113.A3 Afghanistan
- 113.B54 Borneo
- 113.B7 Brunei
- 113.B8 Burma. Myanmar
- 113.C16 Cambodia
- 113.C9 Cyprus
- 113.G39 Gaza Strip
- 113.H54 Himalaya Mountains
- 113.H85 Hong Kong
- 113.I55 Indonesia
- 113.I7 Iraq
- 113.I75 Israel
- 113.J6 Jordan

## Asia

## Other divisions of Asia -- Continued

|          |  |
|----------|--|
| 113.K85  | Kuwait                                     |
| 113.L28  | Laos                                       |
| 113.L4   | Lebanon                                    |
| 113.M2   | Macau                                      |
| 113.M318 | Malaya                                     |
| 113.M32  | Malaysia                                   |
| 113.M45  | Mekong River Valley                        |
|          | Myanmar see T1b 113.B8                     |
| 113.N4   | Nepal                                      |
| 113.P6   | Philippines                                |
| 113.Q36  | Qatar                                      |
| 113.S33  | Saudi Arabia                               |
| 113.S53  | Singapore                                  |
| 113.S6   | Southeast Asia                             |
| 113.S94  | Syria                                      |
| 113.T48  | Thailand                                   |
| 113.U54  | United Arab Emirates                       |
| 113.V5   | Vietnam                                    |
| 113.W48  | West Bank                                  |
| 113.Y45  | Yemen (People's Democratic Republic)       |
| 113.5    | Middle East. Near East                     |
| 114      | Arab countries                             |
| 114.5    | Islamic countries                          |
|          | Africa                                     |
| 115      | General works                              |
|          | Egypt                                      |
| 117      | General works                              |
| 118.A-Z  | Local or special, A-Z                      |
| 119.A-Z  | Other divisions of Africa, A-Z             |
| 119.A4   | Algeria                                    |
| 119.A5   | Angola                                     |
| 119.B57  | Botswana                                   |
| 119.B85  | Burundi                                    |
| 119.C17  | Cameroon                                   |
| 119.C42  | Central Africa                             |
| 119.C43  | Central African Republic                   |
| 119.C75  | Congo (Brazzaville)                        |
|          | Congo (Democratic Republic) see T1b 119.Z3 |
|          | Côte d'Ivoire see T1b 119.I9               |
| 119.D3   | Dahomey                                    |
| 119.D55  | Djibouti                                   |
| 119.E18  | East Africa                                |
| 119.E19  | Eastern Africa                             |
| 119.E8   | Ethiopia                                   |
| 119.F82  | French-speaking Equatorial Africa          |



## Africa

## Other divisions of Africa, A-Z -- Continued

|           |                                    |
|-----------|------------------------------------|
| 119.F83   | French-speaking West Africa        |
| 119.G23   | Gabon                              |
| 119.G45   | Ghana                              |
| 119.G92   | Guinea                             |
| 119.G94   | Guinea-Bissau                      |
| 119.I9    | Ivory Coast. Côte d'Ivoire         |
| 119.K4    | Kenya                              |
| 119.L45   | Lesotho                            |
| 119.L49   | Liberia                            |
| 119.L74   | Libya                              |
| 119.M28   | Madagascar                         |
| 119.M3    | Malawi                             |
| 119.M34   | Mali                               |
| 119.M39   | Mauritania                         |
| 119.M6    | Morocco                            |
| 119.M85   | Mozambique                         |
|           | Namibia see T1b 119.S68            |
| 119.N53   | Niger                              |
| 119.N54   | Nigeria                            |
| 119.N6    | Nile River Valley                  |
| 119.R45   | Rhodesia, Southern. Zimbabwe       |
| 119.R9    | Rwanda                             |
| 119.S18   | Sahel                              |
| 119.S38   | Senegal                            |
| 119.S5    | Sierra Leone                       |
| 119.S59   | Somalia                            |
| 119.S6    | South Africa                       |
| 119.S64   | Southern Africa                    |
| 119.S68   | Southwest Africa. Namibia          |
| 119.S73   | Sub-Saharan Africa                 |
| 119.S74   | Sudan                              |
| 119.S87   | Swaziland                          |
| 119.T35   | Tanzania                           |
| 119.T64   | Togo                               |
| 119.T8    | Tunisia                            |
| 119.U4    | Uganda                             |
| 119.U66   | Upper Volta                        |
| 119.W48   | West Africa                        |
| 119.Z3    | Zaire. Congo (Democratic Republic) |
| 119.Z34   | Zambia                             |
|           | Zimbabwe see T1b 119.R45           |
|           | Indian Ocean islands               |
| 120       | General works                      |
| 120.5.A-Z | Special islands, A-Z               |
| 120.5.M38 | Mauritius                          |

T1b

## COUNTRY DIVISIONS

T1b

|           |                                   |
|-----------|-----------------------------------|
|           | Indian Ocean islands              |
|           | Special islands, A-Z -- Continued |
| 120.5.R48 | Réunion                           |
|           | Australasia                       |
| 120.7     | General works                     |
|           | Australia                         |
| 121       | General works                     |
| 122.A-Z   | Local or special, A-Z             |
|           | New Zealand                       |
| 122.5     | General works                     |
| 122.6.A-Z | Local or special, A-Z             |
| 122.7     | Papua New Guinea                  |
|           | Pacific Islands                   |
| 123       | General works                     |
| 124.A-Z   | By island, A-Z                    |
|           | Arctic regions                    |
| 124.2     | General works                     |
| 124.25    | Greenland                         |
| 124.3     | Antarctica                        |
| 124.4     | Tropics                           |
| 124.5     | Developing countries              |

|           |  |
|-----------|--|
|           | Special exhibitions  |
|           | Guidebooks   |
| .A1       | Official   |
| .A2A-.A2Z | Others, A-Z  |
|           | Histories and descriptions   |
| .B1       | General works  |
| .B2       | General special  |
| .C1       | Collections of pictures, views, etc.   |
|           | Official publications  |
|           | Acts of incorporation, rules, organization, etc.   |
| .D1       | General works  |
| .D13      | Translations of acts   |
|           | Rules, regulations, etc.   |
| .D15      | General works  |
| .D17      | Translations of rules, regulations, etc.   |
| .D2       | General reports, proceedings, etc., of governing board   |
| .D25      | Reports of national (government) commission  |
| .D3       | General reports of special boards, commissions, etc.   |
| .D4       | Congressional hearings and reports of national government<br>on appropriations, etc. By date   |
| .D5       | Special reports. By date   |
|           | General catalogs   |
| .D6       | Official. By date  |
| .D7       | Nonofficial  |
|           | Subarranged by author  |
| .D8       | Reports and awards of jurors   |
| .D9       | Miscellaneous printed matter   |
| .E1       | Official comprehensive reports on the exhibits by editorial<br>commissions, etc. By date   |
| .E1A-.E1Z | General official reports of other countries on exhibitions<br>For their own exhibits see T2 .G1  |
|           | Exhibits of the country in which the exhibition is held  |
| .F1       | Collective   |
|           | Class here general only; special with subject  |
| .F2       | Government exhibit   |
| .F3       | State exhibits, etc.   |
| .G1       | Exhibits of other countries  |
|           | Cf. T2 .E1A+ General official reports on exhibitions   |
| .H1       | Parts of the exposition  |
|           | Works on various exhibits which cannot well be classified with<br>any one subject, e. g. a work on an educational exhibit goes<br>in class L, Education, subdivision Exhibits, but a work on<br>Machinery hall is classed here |

T2

TABLE FOR EXHIBITIONS. TRADE SHOWS

T2

Special exhibitions -- Continued

.K1

Exhibits arranged by names of exhibitors

Works on various exhibits which cannot well be classified with any one subject, e. g. a work on an educational exhibit goes in class L, Education, subdivision Exhibits, but a work on Machinery hall is classed here

.L1

Miscellaneous

Other than .A1-.K1

.N1

Congresses. General reports

|           |   |
|-----------|---|
|           | General works, histories, etc.  |
| .xA2-.xA5 | Official works  |
| .xA6-.xZ  | By author, A-Z  |
| .x1       | Regular reports of the fire department or fire commissioner, chief<br>engineer, superintendent, fire marshall, etc. |
| .x2       | Special bureau reports. Fire patrol bureau reports  |
| .x3       | Special reports and petitions. By date  |
| .x4       | Reports of commissions, committees, investigations. By date<br>Laws, ordinances, regulations<br>see KFA+            |
| .x6       | Manuals and lists of alarm stations or boxes  |
| .x65      | Examinations. Admission to fire service (Civil service, etc.)   |
| .x68      | Pensions, relief, etc.<br>Fire companies. Conventions, etc.   |
| .x7       | General works   |
| .x71      | Paid companies. History, etc.   |
| .x74      | Volunteer companies. Constitution, by-laws, history, etc.   |
| .x77      | Veteran associations  |
| .x8       | Local fire equipment. Engines, enginehouses, etc.   |
| .x9       | Various unofficial publications   |

|           |   |
|-----------|---|
|           | General works, histories, etc.  |
| .xA2-.xA5 | Official works  |
| .xA6-.xZ  | By author, A-Z  |
| .x01      | Regular reports of the fire department or fire commissioner, chief<br>engineer, superintendent, fire marshall, etc. |
| .x02      | Special bureau reports. Fire patrol bureau reports  |
| .x03      | Special reports and petitions. By date  |
| .x04      | Reports of commissions, committees, investigations. By date   |
|           | Laws, ordinances, regulations   |
|           | see KFX   |
| .x06      | Manuals and lists of alarm stations or boxes  |
| .x065     | Examinations. Admission to fire service (Civil service, etc.)   |
| .x068     | Pensions, relief, etc.  |
|           | Fire companies. Conventions, etc.   |
| .x07      | General works   |
| .x071     | Paid companies. History, etc.   |
| .x074     | Volunteer companies. Constitution, by-laws, history, etc.   |
| .x077     | Veteran associations  |
| .x08      | Local fire equipment. Engines, enginehouses, etc.   |
| .x09      | Various unofficial publications   |

T4

TABLE FOR ONE NUMBER REGIONS OR  
COUNTRIES

T4

.A1

General works

.A3-.Z

Special regions or countries, A-Z

*Under each country:**.x**General works**.x2A-.x2Z**Special divisions, A-Z**.x3A-.x3Z**Special cities, A-Z*

T4a

TABLE FOR CUTTER-NUMBER COUNTRIES,  
STATES, ISLANDS, ETC.

T4a

.x

General works

.x2A-.x2Z

Local, A-Z



T4b

TABLE FOR CUTTER-NUMBER COUNTRIES

T4b

.x

General works

.x2A-.x2Z

Special. By city, A-Z

T5

TABLE FOR HISTORY OF PATENTS (1 NUMBER  
REGIONS OR COUNTRIES)

T5

|     |   |
|-----|---|
| .A2 | Periodicals   |
| .B2 | Specifications  |
| .C2 | Lists other than regular periodicals                              |
| .D7 | Indexes to patents  |
| .F4 | Classification  |
| .H3 | Annual reports (Patent Office)                                    |
| .J4 | Special reports (Patent Office)                                   |
| .P2 | General works (Patent Office)                                     |
| .U3 | Designs and models  |
| .V1 | Periodicals (Trademarks)  |
| .V2 | General works (Trademarks)  |
| .V3 | Registers. Lists (Trademarks)                                     |
|     | Including lists of trademarks for special products and industries |

T6

TABLE FOR HISTORY OF PATENTS (CUTTER  
NUMBER COUNTRIES)

T6

|    |   |
|----|---|
| A2 | Periodicals   |
| B2 | Specifications  |
| C2 | Lists other than regular periodicals                              |
| D7 | Indexes to patents  |
| F4 | Classification  |
| H3 | Annual reports (Patent Office)                                    |
| J4 | Special reports (Patent Office)                                   |
| P2 | General works (Patent Office)                                     |
| U3 | Designs and models  |
| V1 | Periodicals (Trademarks)  |
| V2 | General works (Trademarks)  |
| V3 | Registers. Lists (Trademarks)                                     |
|    | Including lists of trademarks for special products and industries |

## INDEX

### NUMERALS

3-D films: TR854  
3-D printing  
    Industrial design: TS171.95  
3-D television: TK6658  
3-D video  
    Digital video: TK6680.8.A15  
3ds max  
    Computer animation: TR897.72.A14

### A

Abbreviations  
    Industrial engineering: T55.52  
    Technology: T8  
Ablative materials  
    Engineering: TA418.9.A25  
Abrading machinery  
    Machine shops: TJ1280+  
Abrasion  
    Aircraft propellers: TL706.A2  
Abrasives  
    Abrading machinery: TJ1296+  
    Engineering materials: TA455.A3  
    Mining engineering: TN936  
ABS resins  
    Plastics: TP1180.A15  
Absinthe  
    Distilled liquors: TP607.A27  
Absorption of gases  
    Chemical engineering: TP156.A3  
Abstract photography: TR656  
Abutments  
    Bridges: TG325  
    Buildings: TH2255  
Accelerator-driven systems  
    Nuclear engineering: TK9203.A28  
Accelerometers  
    Aeronautical instrument: TL589.2.A3  
Acceptance sampling  
    Production management: TS156.4  
Access control  
    Internet: TK5105.8855  
Access for people with disabilities  
    House remodeling: TH4816.15  
    Transportation engineering: TA1285

Access to airports: TL725.3.A2  
Accident prevention  
    Building construction: TH443  
Accident prevention, Industrial: T55+  
Accidents  
    Aeronautics: TL553.5+  
    Balloons: TL612  
    Chemical technology: TP150.A23  
    Metallurgical plants: TN676.A1+  
    Nuclear engineering: TK9152+  
    Petroleum pipelines: TN879.55  
Accidents, Bridge: TG470  
Accounting machines: TK4100+  
Accounts, Household: TX326.A1+  
Accumulators in central stations  
    Dynamolectric machinery: TK2891  
Accuracy of fitting  
    Machine shop practice: TJ1167  
Acetal resins  
    Plastics: TP1180.A33  
Acetates  
    Chemical technology: TP248.A17  
    Environmental pollutants: TD196.A2  
Acetic acid  
    Chemical technology: TP248.A18  
    Environmental pollutants: TD196.A22  
Acetone  
    Chemical technology: TP248.A2  
Acetylene automobiles: TL229.A25  
Acetylene industry: TP765+  
Acid Bessemer process  
    Steel metallurgy: TN737  
Acid deposition  
    Environmental pollution: TD195.4+  
    Water pollutants: TD427.A27  
Acid mine drainage  
    Water pollutants: TD427.A28  
Acid open hearth process  
    Steel metallurgy: TN741  
Acid precipitation  
    Environmental pollution: TD195.4+  
Acid rain  
    Environmental pollution: TD195.4+  
Acids: TP213+  
    Chemical technology: TP247.2  
    Food additives: TP456.A2

## INDEX

- Acorns
  - Cooking: TX814.2.A25
  - Food values: TX558.A3
- Acoustic holography: TA1550
- Acoustic systems and instruments
  - Telegraph: TK5521+
- Acoustical engineering: TA365+
- Acoustical materials
  - Building construction: TH1727
- Acoustical properties and tests
  - Engineering materials: TA418.84
- Acoustical telemetry: TK5103.52
- Acoustics
  - Chemical engineering: TP156.A33
  - Engineering: TA365+
- Acoustooptical devices: TA1770
- Acoustooptics, Applied: TA1770
- Acridines
  - Chemical technology: TP248.A28
- Acrobats
  - Photographic portraits: TR681.A26
- Acrylic acid
  - Chemical technology: TP248.A4
- Acrylic resins
  - Plastics: TP1180.A35
- Acrylic textile fibers: TS1548.7.A25
- Acrylonitrile
  - Air pollutants: TD887.A37
- Activated sludge
  - Sewage treatment: TD767.7
- Activated sludge method
  - Sewage treatment: TD756
- Active noise control
  - Electroacoustics: TK5981.5
- Active server pages
  - Web authoring software: TK5105.8885.A26
- ActiveX
  - Web authoring software: TK5105.8885.A28
- Actors
  - Photographic portraits: TR681.A28
- Actuators
  - Aircraft engines: TL702.A37
  - Control engineering: TJ223.A25
- Ad hoc networks: TK5105.77
- Adaptive antennas: TK7871.67.A33
- Adaptive control systems
  - Mechanical engineering: TJ217
- Adaptive routing
  - Computer networks: TK5105.54873.A33
- Additions
  - House remodeling: TH4816.2
- Additives
  - Cement manufacture: TP884.A3
  - Explosives: TP291
  - Food constituent: TX553.A3
  - Plastics: TP1142
- Adhesive joints, Metal: TA492.A3
- Adhesives
  - Engineering materials: TA455.A34
  - Organic chemical industries: TP967+
  - Packaging materials: TS198.3.A3
- Adhesives, Wood: TS857
- Adiabatic engines: TJ763
- Adjustable pitch aircraft propellers: TL707.P5
- Adjustment tables
  - Freight: TF666
- Adobe
  - Housing material: TH4818.A3
- Adobe brick
  - Chemical technology: TP832.A35
- Adobe Camera Raw: TR267.5.A25
- Adobe Edge animate
  - Computer animation: TR897.72.A34
- Adobe GoLive
  - Web authoring software: TK5105.8885.A34
- Adobe InDesign
  - Web authoring software: TK5105.8885.A35
- Adobe Muse
  - Web authoring software: TK5105.8885.A355
- Adobe PageMill
  - Web authoring software: TK5105.8885.A36
- Adobe Photoshop: TR267.5.A3
  - Web authoring software: TK5105.8885.A38
- Adobe Photoshop elements: TR267.5.A33

## INDEX

- Adobe Photoshop lightroom:
  - TR267.5.A355
- Adsorption
  - Chemical engineering: TP156.A35
  - Sewage purification: TD753.5
  - Water purification: TD449.5
- Adulterants
  - Detection in food: TX563
  - Food: TX562.2+
- Adulteration
  - Food: TX562.2+
  - Food supply: TX501+
  - Wine and winemaking: TP548.5.A38
- Advanced Communications Technology
  - Satellite: TK5104.2.A38
- Advent
  - Cooking: TX739.2.A48
- Advertising
  - Use of airplanes: TL722.5
- Advertising cinematography
  - Photography: TR894.6
- Advertising photography: TR690.4
- Advice to sitters
  - Portrait photography: TR577
- Aerated package treatment systems
  - Sewage disposal systems: TD779
- Aeration
  - Food processing: TP371.15
  - Sewage disposal: TD758
  - Water purification: TD458
- Aerial lines
  - Electric power: TK3231+
  - Telephone connections: TK6352
- Aerial photography: TR810
  - Railroad surveying: TF213.5
- Aerial surveying: TA592+
- Aerial surveys
  - Location engineering: TE209.5
- Aerial tramways
  - Conveying machinery: TJ1386
  - Mines: TN332
- Aerobatics: TL711.S8
- Aerodromes: TL725+
- Aerodynamic heating: TL574.A45
- Aerodynamics
  - Aeronautics: TL570+
  - Engineering: TA358
- Aerodynamics
  - Motor vehicle dynamics: TL245
  - Turbomachinery: TJ267
  - Vehicles: TA359
- Aeroelasticity
  - Aerodynamics: TL574.A37
- Aerofoils
  - Aerodynamics: TL574.A4
- Aeronautical engineering: TL500+
- Aeronautical instruments: TL589+
- Aeronautical laboratories: TL566+
- Aeronautical meteorology: TL556+
- Aeronautics: TL500+
  - Environmental effects: TD195.A27
- Aeronautics as a vocation: TL561
- Aeronauts
  - Balloons: TL620.A1+
- Aeroservoelasticity
  - Aerodynamics: TL574.A44
- Aerosols
  - Chemical technology: TP244.A3
  - Fire prevention and extinction:
    - TH9446.A37
  - Packaging: TS198.A3
- Aerospace industries
  - Air pollution: TD888.A53
- Aerostatics: TL578
- Aerostation
  - Aircraft: TL605+
- Aerosteam engines: TJ727
- Aerothermodynamics: TL574.A45
- Aesthetics
  - Dress: TT507
  - Photography: TR183
- African American cooking:
  - TX715.2.A47
- African Americans
  - Nutrition: TX361.A27
- Africans
  - Photographic portraits: TR681.A33
- Afternoon teas
  - Cooking: TX736
- Agar
  - Food processing and manufacture:
    - TP445.5.A35
- Agates
  - Mineral industries: TN997.A35

## INDEX

- Agfa cameras
  - Photography: TR263.A35
- Aggregate industry
  - Environmental effects: TD195.A33
- Aggregates
  - Masonry materials: TA441
  - Prospecting: TN271.A47
- Agricultural chemicals
  - Environmental pollutants: TD196.A34
  - Soil pollutants: TD879.A35
  - Water pollutants: TD427.A35
- Agricultural laborers
  - Nutrition: TX361.A4
- Agricultural machinery
  - Internal combustion engines: TJ793
  - Mechanical engineering: TJ1480+
- Agricultural photography: TR739+
- Agricultural wastes
  - Disposal and drainage: TD930+
- Agriculture
  - Air pollution: TD888.A54
  - Electric power: TK4018
  - Electronics: TK7882.A37
  - Energy conservation: TJ163.5.A37
  - Environmental effects: TD195.A34
  - Water pollution: TD428.A37
- AIDS patients
  - Photographic portraits: TR681.A38
- Ailerons
  - Airplanes: TL677.A5
- AIM 65 computer: TK7889.A37
- Air bags
  - Automobiles: TL159.5
- Air brakes
  - Automobiles: TL269.2
- Air, Compressed
  - In plumbing testing: TH6617
- Air compressors
  - Pneumatic machinery: TJ990+
- Air conditioning
  - Airplanes: TL681.A5
  - Buildings: TH7687+
  - Electric power: TK4035.A35
  - Motor vehicles: TL271.5
  - Railroad cars: TF453
- Air conditioning equipment
  - Transportation engineering: TA1280
- Air conditioning from central stations:
  - TH7687.75
- Air-cooled engines: TJ766.7
- Air currents
  - Aeronautical meteorology: TL557.A5
- Air curtains
  - Ventilation of buildings: TH7683.A25
- Air cushion landing systems
  - Airplanes: TL683.A35
- Air ducts
  - Airplanes: TL697.A57
  - Ventilation of buildings: TH7683.D8
- Air filters
  - Gasoline automobiles: TL214.A4
  - Ventilation of buildings: TH7683.A3
- Air frames
  - Airplanes: TL671.6
- Air-fuel ratio
  - Machinery: TJ254.52
- Air guns
  - Manufactures: TS537.5
- Air inlets
  - Jet engines: TL709.5.I5
- Air intakes
  - Jet engines: TL709.5.I5
- Air jets
  - Pneumatic machinery: TJ1030
- Air meets
  - Airplanes: TL721.5+
  - Gliders: TL760.5
- Air meters
  - Pneumatic machinery: TJ1025+
- Air navigation: TL586+
- Air pilot guides: TL725+
- Air pollution control: TD881+
- Air pollution control equipment: TD889
- Air pollution, Indoor: TD883.17
- Air pollution sources: TD888.A+
- Air preheating
  - Furnaces: TJ328
- Air pumps
  - Pneumatic machinery: TJ955
- Air quality, Indoor: TD883.17
- Air safety: TL553.5+
- Air sampling and analysis: TD890
- Air-speed indicators: TL589.2.A5

## INDEX

- Air-supported structures
  - Building construction: TH1099
- Air suspensions
  - Motor vehicles: TL257.3
- Air transportation
  - Environmental effects: TD195.A27
  - Technological aspects: TL720+
- Air turbines: TJ766.5
- Air vents
  - Hot water heating: TH7545
  - Hydronic systems: TH7479
  - Steam heating: TH7595
- Air washers
  - Ventilation of buildings: TH7683.A3
- Airbrakes
  - Railroad cars: TF420+
- Airbrush work
  - Photographic processing: TR485
- Aircraft: TL600+
- Aircraft bird strikes
  - Aeronautics: TL553.54
- Aircraft carriers: TL725.8, TL726+
- Aircraft engines: TL701+
- Aircraft exhaust emissions
  - Air pollutants: TD886.7
- Aircraft, Human powered: TL769
- Airlift pumps
  - Hydraulic machinery: TJ925
- Airplane accessories: TL688+
- Airplane industry
  - Technical aspects: TL724+
- Airplane materials: TL688+
- Airplanes: TL669.2+
  - Government use: TL723
  - Humanitarian uses: TL722.8
  - Noise control: TD893.6.A57
  - Photography: TR714
- Airplanes in industry: TL722+
- Airport aprons: TL725.3.A59
- Airport buildings
  - Aeronautics: TL725.3.B8
- Airports
  - Access: TL725.3.A2
  - Aeronautics: TL725+
  - Environmental effects: TD195.A36
  - Fire prevention and extinction: TH9445.A5
- Airports
  - Government operation and support: TL725.3.G6
  - Intra-airport transportation: TL725.3.I6
  - Size: TL725.3.S5
- Airscrews
  - Aeronautical engineering: TL705+
- Airships: TL650+
- Airspeed
  - Airplanes: TL711.A5
- Airtight construction
  - Building construction: TH1719
- Airways (Routes): TL725+
- Airworthiness requirements
  - Airplanes: TL671.1
- Ajax (Web authoring software): TK5105.8885.A52
- Akron (Airship): TL659.A4
- Alabaster
  - Mineral industries: TN989.A3
- Alarm equipment
  - Security in buildings: TH9739
- Alarms
  - Installation in houses: TK7241+
- Albertype
  - Photography: TR933
- Alcohol
  - Chemical technology: TP500+
  - Distilling: TP593
  - Food values: TX560.A3
- Alcohol and alcohol mixtures
  - Fuel: TP358
- Alcohol automobiles: TL217
- Alcohol motors: TJ800
- Alcoholic beverages
  - Adulteration: TX597
  - Cooking: TX726+
- Alcohols
  - Chemical technology: TP248.A5
- Aldehydes
  - Chemical technology: TP248.A53
- Ale
  - Brewing and malting: TP578
- Algae and algae products
  - Food processing and manufacture: TP445+



## INDEX

- Algae as food
  - Nutrition: TX402
- Algae control by copper sulfate
  - Water purification: TD465
- Algal biotechnology: TP248.27.A46
- Algin
  - Food processing and manufacture: TP445.5.A45
- Alignment of machinery
  - Mechanical engineering: TJ177.5
- Alizarin
  - Textile dyes: TP918.A4
- Alizarin black
  - Textile dyes: TP918.N2
- Alkali metals
  - Metallography: TN693.A4
- Alkalies: TP222+
  - Mining engineering: TN895+
- Alkenes
  - Chemical technology: TP248.A554
- Alkylation
  - Petroleum refining: TP690.45
- All terrain vehicle driving: TL235.7
- All terrain vehicles: TL235.6+
- Allanite
  - Mining engineering: TN948.A5
- Allene
  - Chemical technology: TP248.A555
- Allergens
  - Chemical biotechnology: TP248.65.A39
- Alligator
  - Cooking: TX749.5.A44
- Allocation method
  - Linear programming: T57.77
- Allowances, Time
  - Industrial engineering: T60.45
- Alloys
  - Aeronautics: TL699.A58
  - Electroplating: TS693
  - Engineering materials: TA483+
  - Industrial electrochemistry: TP261.A1
  - Manufactures: TS650
  - Metallography: TN693.A+
  - Motor vehicle construction materials: TL240.5.A46
  - Precious metals: TS729
- Allyl compounds
  - Chemical technology: TP248.A56
- Almonds
  - Cooking: TX814.2.A44
- Alpha-bearing wastes
  - Radioactive waste disposal: TD898.7.A46
- Alpha iron
  - Metallurgy: TN709
- Alphabets
  - Embroidery: TT773
- Alsatian cooking: TX719.2.A45
- AltaVista: TK5105.885.A45
- Alterations
  - Women's tailoring: TT550
- Altered books
  - Decorative crafts: TT896.3
- Alternating current
  - Dynamolectric machinery: TK2825+
  - Electrical engineering: TK454.15.A48
- Alternating-current engineering
  - Electrical engineering: TK1141+
- Alternating-current generators: TK2761+
- Alternating-current machinery
  - Dynamolectric machinery: TK2711+
- Alternating-current motors
  - Dynamolectric machinery: TK2781+
- Alternating-current systems
  - Electric lighting: TK4304
  - Electrical engineering: TK3141+
- Alternating-current transforming machinery: TK2791+
- Alternative fuel vehicles: TL216.5
- Altimeter
  - Aeronautical instrument: TL589.2.A6
  - Aeronautical navigation: TL696.H4
- Altitude flights, Special
  - Airplanes: TL711.A7
- Altitude flying
  - Airplanes: TL711.A6
- Alumina cement
  - Cement manufacture: TP884.A48
- Aluminium process
  - Photolithography: TR950
- Aluminum
  - Aeronautics: TL699.A6

## INDEX

### Aluminum

- Chemical technology: TP245.A4
- Effect on food: TX572.A6
- Electroplating: TS692.A5
- Engineering materials: TA480.A6
- Manufactures: TS554+
- Metal finishing: TS694.2
- Metallography: TN693.A5
- Metallurgy: TN775
- Mining: TN490.A5
- Motor vehicle construction materials: TL240.5.A48
- Ore dressing and milling: TN538.A55
- Powder metallurgy: TN697.A47
- Structural engineering: TA690
- Waste disposal: TD812.5.A48
- Water pollutants: TD427.A45

### Aluminum alloys

- Aeronautics: TL699.A6
- Engineering materials: TA479.A4
- Metallurgy: TN775
- Structural engineering: TA690

### Aluminum conductors

- Electric power: TK3311.A6

### Aluminum foil craft: TT242

### Aluminum industry

- Environmental effects: TD195.A37
- Waste control: TD899.A44

### Aluminum mines and mining

- Water pollution: TD428.A48

### Aluminum plants

- Air pollution: TD888.A56
- Manufactures: TS556

### Aluminum roofing

- Building construction: TH2459

### Aluminum work

- Handicrafts: TT242

### Alunite

- Mining engineering: TN948.A6

### Amalgamation

- Gold and silver metallurgy: TN763

### Amateur cinematography: TR896+

### Amateur experiments

- Astronautics: TL794.3

### Amateur photography for profit:

- TR690.2

### Amateurs' manuals

- Electricity: TK9900+
- Home computer networks: TK5105.75
- House construction: TH4815
- House repair: TH4817.3

### Ambary hemp

- Textile fiber: TS1544.A5

### Amber

- Jewelry work: TS755.A5
- Mining engineering: TN885

### Ambrotype

- Photography: TR370

### Ambulances: TL235.8

### Americium

- Metallography: TN693.A54

### Amino acids

- Biotechnology: TP248.65.A43
- Chemical technology: TP248.A6
- Food constituent: TX553.A5

### Aminoplastics

- Plastics: TP1180.A5

### Ammeters: TK331

### Ammonia

- Air pollutants: TD887.A66

- Alkalies: TP223

### Ammonia compounds

- Alkalies: TP223

### Ammonia industry

- Environmental effects: TD195.A44

### Ammonium nitrate fuel oil

- Explosives: TP290.A5

### Ammonium phosphate

- Fertilizers: TP963.4.A38

### Ammonium sulfate

- Fertilizers: TP963.4.A4

### Ammunition

- Manufactures: TS538+

### Amorphous semiconductors:

- TK7871.99.A45

### Amorphous substances

- Engineering: TA418.9.A58

### Ampere-hour meters: TK331

### Amphibians

- Seaplanes: TL684.1

### Amphibious vehicles: TL235.63

### Amphitheaters

- Environmental effects: TD195.S68

## INDEX

- Amplifiers
  - Computer engineering: TK7895.A5
  - Electronics: TK7871.2+
  - Radar: TK6590.A5
  - Radio: TK6565.A55
  - Television: TK6655.A5
- Amusement machines
  - Mechanical engineering: TJ1570
- Amylodextrins
  - Biotechnology: TP248.65.A45
- Anaerobic treatment
  - Sewage treatment: TD756.45
- Analog computers: TK7888
- Analog-to-digital converters
  - Computer engineering: TK7887.6
- Analogs
  - Mathematical models: TA343
- Analysis
  - Food composition: TX541+
  - Gas industry: TP754
  - Pollution measurement: TD193+
  - Sewage: TD735
  - Water: TD380+
  - Wine and winemaking: TP548.5.A5
  - Woodpulp: TS1176.6.A5
- Analysis, Chemical
  - Food adulterants: TX569
- Analysis, Microscopic
  - Food adulterants: TX567
- Analysis, Root cause: TA169.55.R66
- Anchor
  - Balloons: TL625.A6
- Anchorage
  - Structural engineering: TA772
- Anchors, Guy: TA777
- Anchovies
  - Cooking: TX748.A53
- Ancient light
  - Natural lighting: TH7792
- Ancient pumps
  - Hydraulic machinery: TJ901
- Andirons
  - Building construction: TH7427.A5
- Anechoic chambers: TA365.5
- Angle measurement
  - Surveying: TA603
- Angle of incidence
  - Airplanes: TL673.A6
- Angles
  - Structural engineering: TA660.A53
- Angles, Metal
  - Engineering materials: TA492.A6
- Anhydrite
  - Mining engineering: TN948.A65
- Aniline black
  - Textile dyes: TP918.A5
- Aniline dyes: TP914
- Animal cell biotechnology:
  - TP248.27.A53
- Animal fats
  - Chemical technology: TP676
- Animal feeds and feed mills: TS2284+
- Animal fibers
  - Textile industries: TS1545+
- Animal motors: TJ830
- Animal oils
  - Chemical technology: TP676
- Animal products
  - Manufactures: TS1950+
- Animal waste
  - Rural engineering: TD930.2
- Animals
  - Nature photography: TR727+
- Animated motion pictures
  - Cinematography: TR897.5+
- Annealing
  - Steel metallurgy: TN752.A5
- Annular gears
  - Toothed gears: TJ191
- Annunciators
  - Installation in houses: TK7221
- Anodic oxidation
  - Metal finishing: TS694+
- ANSYS
  - Computer-aided engineering:
    - TA345.5.A57
- Antenna arrays: TK7871.67.A77
- Antennas
  - Aircraft communication equipment:
    - TL694.A6
  - Electronics: TK7871.6+
  - Lens antennas: TK7871.67.L45
  - Radar: TK6590.A6

## INDEX

- Antennas
  - Radio: TK6565.A6
  - Television: TK6655.A6
- Anthracene dyes: TP915
- Anthracite
  - Mining: TN820+
- Anthraquinones
  - Textile dyes: TP918.A6
- Antibiotic residues
  - Effect on food: TX571.A58
- Antibiotics
  - Biotechnology: TP248.65.A57
  - Food constituent: TX553.A7
- Antifoaming agents
  - Chemical technology: TP159.A47
- Antifreeze solutions
  - Chemical technology: TP362
- Antifriction devices
  - Machinery: TJ1071
- Antilock brake systems
  - Motor vehicles: TL269.3
- Antimicrobial polymers
  - Plastics: TP1180.A58
- Antimony
  - Chemical technology: TP245.A6
  - Metallurgy: TN799.A6
  - Ore deposits and mining: TN490.A6
  - Ore dressing and milling: TN538.A57
- Antioxidants
  - Chemical technology: TP159.A5
  - Food constituent: TX553.A73
- Antiperspirants: TP985
- Antiquities
  - Aeronautical engineering: TL516
  - Astronautics: TL516
  - Railroad engineering: TF16
- Antibiotics
  - Chemical technology: TP248.A62
- Apache (Web authoring software):  
TK5105.8885.A63
- Apartment houses
  - Construction: TH4820
  - Electric power: TK4035.A6
  - Fire prevention and extinction:  
TH9445.A62
  - Heating and ventilation: TH7392.A6
  - Housekeeping: TX957+
- Apartment houses
  - Plumbing: TH6515.A6
  - Sanitary engineering: TH6057.A6
  - Ventilation: TH7684.A6
- Apatite
  - Mining engineering: TN948.A7
- Aperture: TR267.5.A64
- Apollo project: TL789.8.U6A5
- Apparatus
  - Acetylene industry: TP769
  - Chemical engineering: TP157+
  - Electronics: TK7869+
  - Fermentation industries: TP517
  - Radar: TK6585+
  - Television: TK6650+
  - Wine and winemaking: TP548.5.A6
- Apparatus and supplies
  - Computer networks: TK5105.53+
- Apparatus for delivering goods during  
flight: TL733
- Apparatus for picking up goods during  
flight: TL733
- Apple brandy
  - Distilled liquors: TP607.A57
- Apple butter
  - Cooking: TX767.A65
- Apple II computer: TK7889.A66
- Apple IIe computer: TK7889.A663
- Apple juice, Unfermented: TP564
- Apple parers
  - Cooking: TX657.A66
- Apple TV
  - Digital video: TK6680.8.A66
- Apples
  - Cooking: TX813.A6
  - Food processing: TP441.A6
  - Food values: TX558.A6
  - Preservation and storage: TX612.A6
- AppleTalk: TK5105.8.A77
- Appliances
  - Cooking: TX656+
  - Fire prevention and extinction:  
TH9245
  - Street cleaning: TD860
- Application-specific integrated circuits
  - Electronics: TK7874.6

## INDEX

- Applications of astronomy
  - Surveying: TA597
- Applied acoustooptics: TA1770
- Applied cinematography: TR892+
- Applied dynamics: TA352+
- Applied electrooptics: TA1750+
- Applied fiber optics: TA1800+
- Applied fluid mechanics: TA357+
- Applied forces, Behavior of materials under: TA404.8+
- Applied geology: TN260
- Applied holography: TA1540+
- Applied mathematics
  - Industrial engineering: T57+
- Applied mechanics: TA349+
- Applied mineralogy: TN260
- Applied neutron optics: TA1773
- Applied optics: TA1501+
- Applied photography: TR623.2+
- Applied plasma dynamics: TA2001+
- Applied statics: TA351
- Applied X-ray optics: TA1775
- Appliqué
  - Decorative needlework: TT779
- Appraisal
  - Hotels, clubs, restaurants, etc.: TX911.3.V34
- Approach channels
  - Harbor engineering: TC352
- Approximations
  - Engineering mathematics: TA335
- Appurtenances
  - Low-pressure hot water heating: TH7529
  - Warm-air heating: TH7623+
- Apricots
  - Cooking: TX813.A64
- Aprons
  - Women's tailoring: TT546.5
- Aprons, Airport: TL725.3.A59
- Aquaculture
  - Water pollution: TD428.A68
- Aquatic pests
  - Water pollution: TD427.A68
- Aquavit
  - Distilled liquors: TP607.A6
- Aqueducts
  - Water supply: TD398
- Aquifer storage recovery of groundwater: TD404.5
- 'Arabsât (Artificial satellite): TK5104.2.A72
- Arc lamps and systems: TK4321+
- Arc lighting, Electric: TK4311+
- Archaeological photography: TR775
- Archaeology, Space
  - Astronautics: TL788.6
- Arched bridges: TG327+
- Arches
  - Building design and construction: TH2150+
  - Structural engineering: TA660.A7
- Arches, Centering of
  - Building construction: TH5591
- Architects
  - Photographic portraits: TR681.A67
- Architectural ceramics
  - Chemical technology: TP825+
- Architectural engineering
  - Building construction: TH845+
  - Environmental effects: TD195.C595
  - Wooden buildings: TH1111
- Architectural metalwork
  - Building construction: TH1651+
- Architectural photography: TR659
- Architectural woodwork
  - Building construction: TH1151+
- Architecture Analysis and Design Language
  - Computer-aided engineering: TA345.5.A73
- Archive buildings
  - Fire prevention and extinction: TH9445.A7
- Archives, Technical: T11.9
- Areaways
  - Building design and construction: TH3000.A74
- Argillite
  - Mining engineering: TN948.A76
- Argon
  - Chemical technology: TP245.A7

## INDEX

- Argus cameras
  - Photography: TR263.A7
- Ariel motorcycle: TL448.A47
- Aristotypes
  - Photographic process: TR395
- Arithmetic units
  - Computer engineering: TK7895.A65
- Armature winding and armatures
  - Generators: TK2477
- Armed Forces
  - Environmental effects: TD195.A75
- Arnold's fluid
  - Ink manufacture: TP948.A8
- Aromatic compounds
  - Chemical technology: TP248.A7
  - Environmental pollutants: TD196.A75
- ARPANET
  - Computer networks: TK5105.875.A77
- Arrangement
  - Dining room: TX857
  - Kitchen: TX655
  - Table: TX873
  - The house: TX309
- Arrays
  - Antennas: TK7871.67.A77
- Arriflex motion picture camera:
  - TR883.A77
- Arsenals
  - Waste control: TD899.A76
- Arsenic
  - Chemical technology: TP245.A8
  - Effect on food: TX572.A77
  - Environmental pollutants: TD196.A77
  - Ore deposits and mining: TN490.A8
  - Water pollutants: TD427.A77
- Arsenic wastes
  - Waste disposal: TD898.8.A76
- Art glazing
  - Decorative furnishings: TH8271+
- Art of dress: TT507
- Artesian wells
  - Water supply: TD410
- Artichokes
  - Cooking: TX803.A7
- Articles for children
  - Handicrafts: TT174+
- Articles made of glass: TP865+
- Artificial diamonds: TP873.5.D5
- Artificial dyes: TP913+
- Artificial fire testing
  - Building construction: TH1091+
- Artificial flowers
  - Decorative crafts: TT890+
- Artificial fruits
  - Decorative crafts: TT896
- Artificial fuel: TP360
- Artificial fur
  - Manufactures: TS1070
- Artificial gems
  - Chemical technology: TP873+
- Artificial horizons
  - Aeronautical instrument: TL589.2.A78
- Artificial indigo
  - Dyes: TP924
- Artificial intelligence
  - Engineering mathematics: TA347.A78
- Artificial islands
  - Air conditioning: TH7688.O44
- Artificial light
  - Photographic processing: TR333
  - Photography: TR600
- Artificial lighting
  - Building construction: TH7900+
  - Photography: TR590+
- Artificial materials
  - Masonry materials: TA431+
- Artificial mineral waters: TP625
- Artificial minerals
  - Chemical technology: TP870
- Artificial recharge
  - Groundwater: TD404
- Artificial satellite orbits: TL1080
- Artificial satellites: TL796+
  - Aeronautical navigation: TL696.A77
  - Earth: TL796.6.E2
  - Moon: TL796.6.M66
  - Sun: TL796.6.S8
- Artificial satellites in telecommunication
  - Electrical engineering: TK5104+
- Artificial silk
  - Dyeing: TP902
  - Silk manufactures: TS1688.A1+
- Artificial stone
  - Chemical technology: TP871

## INDEX

- Artificial stone building construction:
  - TH1451
- Artificial sweeteners
  - Effect on food: TX571.S9
- Artificial ventilation
  - Ventilation of buildings: TH7678+
- Artificial wool
  - Woolen manufactures: TS1635
- Artisans
  - Photographic portraits: TR681.A69
- Artistic cinematography: TR892.4
- Artistic photography: TR640+
- Artists
  - Photographic portraits: TR681.A7
- Arts and crafts: TT1+
- Asbestos
  - Aeronautics: TL699.A8
  - Air pollutants: TD887.A8
  - Engineering materials: TA455.A6
  - Environmental pollutants: TD196.A78
  - Fireproofing materials: TH1075
  - Mining engineering: TN930
  - Reinforced plastics: TP1177.5.A8
- Asbestos cement
  - Cement manufacture: TP884.A8
- Asbestos fiber: TS1549.A7
- Asbestos industry
  - Dust removal: TH7697.A8
- Asbestos substitutes
  - Engineering materials: TA455.A62
- Ascensions, Balloon: TL620.A1+
- Ascorbic acid
  - Chemical technology: TP248.A8
  - Food constituent: TX553.A8
- Ash-handling machinery
  - Conveying machinery: TJ1410
- Ashes
  - Nonmetallic materials: TA455.A63
  - Waste disposal: TD797
- Ashpans
  - Locomotives: TJ647
- Ashpits
  - Railway structures: TF272
- Asians
  - Photographic portraits: TR681.A75
- ASN.1
  - Computer network standard: TK5105.553
- Asparagus: TP444.A8
  - Cooking: TX803.A8
- Aspen
  - Woodpulp industry: TS1176.4.A8
- Asphalt
  - Bituminous pavements: TE275
  - Cementing substance: TA443.A7
  - Engineering materials: TA455.A7
  - Mining engineering: TN853
  - Sidewalks: TE293
- Asphalt block
  - Bituminous pavements: TE276
- Asphalt concrete
  - Cement manufacture: TP884.A85
- Asphalt flooring: TH2529.P5
- Asphalt mixing machinery
  - Bituminous pavements: TE273
- Asphalt plants
  - Air pollution: TD888.A86
- Asphalts
  - Petroleum products: TP692.4.A8
- Aspheric lenses: TS517.5.A86
- Assay laboratories: TN570+
- Assaying
  - Metallurgy: TN550+
- Assaying apparatus: TN575
- Assemblage
  - Crafts: TT910
- Assembling machines
  - Machine shops: TJ1317+
- Assembly line processes
  - Manufacturing engineering: TS178.4+
- Assessment, Technology: T174.5
- Assisi
  - Embroidery: TT778.A87
- Associative storage
  - Computer engineering: TK7895.M4
- ASTRA (Artificial satellite):
  - TK5104.2.A75
- Astrionics: TL3000+
- Astrodynamics: TL1050+
- Astronautical instruments: TL1082
- Astronautics: TL787+
  - Accidents: TL867

## INDEX

- Astronautics
  - Research: TL858+
- Astronautics as a profession: TL850+
- Astronautics research
  - Equipment: TL859+
  - Laboratories: TL859+
- Astronauts
  - Mental requirements: TL856
  - Nutrition: TX361.S63
  - Physical requirements: TL856
  - Qualifications: TL855+
- Astronomical charts
  - Space navigation: TL1070
- Astronomy, Applications of
  - Surveying: TA597
- Astronomy for air pilots: TL586+
- Aswan High Dam: TC558.E5A8
- Asylums
  - Fire prevention and extinction: TH9445.A8
- Asynchronous electronic circuits:
  - TK7868.A79
- Asynchronous motors
  - Alternating-current motors: TK2785
- Asynchronous transfer mode
  - Packet switching: TK5105.35
- AT&T computer: TK7889.A85
- Athletes
  - Nutrition: TX361.A8
  - Photographic portraits: TR681.A84
- Athletic shoes
  - Boot and shoemaking: TS1017
- Atlantic submarine telegraph: TK5611
- Atmospheric deposition
  - Water pollution: TD427.A84
- Atmospheric electricity
  - Aeronautical meteorology: TL557.S65
- Atmospheric entry phenomena
  - Astronautics: TL1060
- Atmospheric railways: TF692
- Atmospheric temperature
  - Aeronautical meteorology: TL557.A8
- Atomic batteries
  - Electrical engineering: TK2965
- Atomic bomb shelters
  - Heating and ventilation: TH7392.A8
- Atomic engines
  - Aircraft engines: TL704.1
- Atomic power
  - Nuclear engineering: TK9001+
- Atomic power plants
  - Environmental effects: TD195.E4
  - Fire prevention and extinction: TH9445.A85
  - Waste control: TD899.A8
  - Water pollution: TD428.A86
- Atomizers
  - Chemical technology: TP159.A85
- Atrato Canal: TC788
- Atrazine
  - Water pollutants: TD427.A86
- Attar of roses
  - Organic chemical industries: TP959.R6
- Attenuators
  - Radio: TK6565.A8
- Attics
  - Building design and construction: TH3000.A86
  - House remodeling: TH4816.3.A77
- Attitude control systems
  - Space vehicles: TL3260
- Auctions
  - Wine and winemaking: TP548.5.A93
- Audio amplifiers: TK7871.58.A9
- Audiovisual equipment industry:
  - TS2301.A7+
- Audiovisual photography: TR816
- Auditing, Environmental: TD194.7+
- Auditoriums
  - Electric lighting: TK4399.A9
  - Electric sound control: TK7881.9
- Austenitic steel
  - Engineering materials: TA479.A88
- Auster aircraft: TL686.A77
- Authors
  - Photographic portraits: TR681.A85
- Authorship
  - Aeronautics: TL564.5
  - Cooking: TX644
  - Safety manuals: T55.3.A87
- AutoCAD: T385



## INDEX

- AutoCAD
  - Computer-assisted drafting: T386.A97
- AutoCAD Civil 3D
  - Computer-aided engineering: TA345.5.A98
- Autoclaves
  - Chemical technology: TP159.A9
- Autodesk Inventor
  - Computer-assisted drafting: T386.A974
- Autodesk Smoke: TR267.5.A965
- Autofocus cameras
  - Photography: TR260.7
- Autogenous soldering
  - Plumbing: TH6691
- Autogiros: TL715
- Autographic
  - Telegraph: TK5545
- Automata
  - Mechanical engineering: TJ210.2+
- Automatic cameras
  - Photography: TR260.5
- Automatic control
  - Aeronautical instruments: TL589.4+
  - Electric power distribution systems: TK3070
  - Motor vehicle operation: TL152.8
  - Petroleum refining: TP690.3
- Automatic data collection systems
  - Production control: TS158.6
- Automatic flushing systems
  - Cold water supply plumbing: TH6544
- Automatic lines
  - Machine tools: TJ1185.5
- Automatic machinery
  - Mechanical engineering: TJ212+
- Automatic pilots
  - Aeronautical instruments: TL589.5
- Automatic receiving instruments
  - Telegraph: TK5541+
- Automatic sprinkler systems
  - Fire extinction: TH9336
- Automatic stokers
  - Furnaces: TJ345
- Automatic systems
  - Telephone connections: TK6397
- Automatic test equipment
  - Computer engineering: TK7895.A8
- Automatic tracking
  - Radar: TK6592.A9
- Automatic train control
  - Railway operation: TF638
- Automatic transmission devices: TL263
- Automatic transmitting systems
  - Telegraph: TK5541+
- Automation
  - Biotechnology: TP248.25.A96
  - Chemical technology: TP150.A88
  - Electrical engineering: TK448
  - Food processing and manufacture: TP372.8
  - Foundry work: TS233
  - Industrial engineering: T59.5
  - Mining: TN276
  - Papermills: TS1117.6
  - Sugar processing: TP380
  - Transportation engineering: TA1230
- Automobile drivers
  - Photographic portraits: TR681.A94
- Automobile equipment and supplies: TL159+
- Automobile exhaust
  - Air pollutants: TD886.5
- Automobile graveyards
  - Municipal refuse: TD795.4
- Automobile headlights: TL273
- Automobile horns: TL274
- Automobile operation: TL151.5+
- Automobile purchasing: TL162
- Automobile radios: TK6570.A8
- Automobile related wastes
  - Waste disposal: TD797.5+
- Automobile repair shops
  - Waste control: TD899.A96
- Automobile schools: TL156
- Automobile service stations
  - Heating and ventilation: TH7392.A9
- Automobile sound systems
  - Electronics: TK7881.85
- Automobile trains: TL235
- Automobiles, Photography of: TR716
- Automotive drafting: TL253
- Automotive engineering: TL1+

## INDEX

Automotive event data recorders  
  Motor vehicles: TL272.54  
Automotive gas turbines: TL227  
Autonomous robots  
  Mechanical engineering: TJ211.495  
Autosleds: TL460  
Autosyn indicator  
  Aeronautical instrument: TL589.2.A8  
Autotype  
  Photography: TR935  
Auvergne cooking: TX719.2.A98  
Auxiliary equipment  
  Electronic measurements: TK7878.5+  
Auxiliary power supply  
  Aircraft: TL691.A95  
Auxiliary valves  
  Plumbing: TH6500  
Avalanche control  
  Engineering: TA714  
Avalanche diodes  
  Semiconductors: TK7871.89.A94  
Aviation climatology: TL556+  
Avocados  
  Cooking: TX813.A9  
Awards  
  Cooking: TX648  
Awards programs  
  Industrial safety: T55.3.A93  
Awning making  
  Textile industries: TS1860  
Axes  
  Machine shops: TJ1201.A9  
Axial flow  
  Applied fluid mechanics:  
    TA357.5.A95  
Axles  
  Airplanes: TL683.A8  
  Electric railways: TF949.A9  
  Machinery: TJ1057.4  
  Railroad cars: TF386  
Axonometric projection  
  Mechanical drawing: T363  
Azimuth observations: TA597  
Aziridines  
  Chemical technology: TP248.A9  
Azo dyes: TP914

## B

Babbitt metal  
  Engineering materials: TA480.T5  
Baby clothes: TT637  
Back pressure valves  
  Low-pressure steam heating:  
    TH7578.B3  
Backplanes  
  Computer engineering: TK7895.B33  
Backsiphonage  
  Water supply to buildings: TH6523  
Bacon  
  Cooking: TX749.5.P67  
  Meat-packing industries: TS1974.B3  
Bacteria  
  Water pollutants: TD427.B37  
Bacterial leaching  
  Hydrometallurgy: TN688.3.B33  
Bacterial purification  
  Sewage: TD755+  
Bacterial starter cultures  
  Food additives: TP456.B32  
Bacteriological analysis  
  Water: TD384  
Badges  
  Aeronautics: TL538  
  Metal manufactures: TS761  
Bagasse  
  Utilization of waste: TP996.B3  
Bagels  
  Cooking: TX770.B35  
Baggage  
  Railway operation: TF656  
Baggage cars  
  Railway equipment: TF463  
Bagging  
  Textile industries: TS1781  
Bags  
  Packaging: TS198.B3  
  Paper manufacture: TS1200.A1+  
Baked products  
  Food values: TX552.15  
Bakelite  
  Plastics: TP1180.B3  
Bakeries  
  Air conditioning: TH7688.B3

## INDEX

Bakers' supplies: TX778  
Bakers' trade publications: TX776  
Baking  
    Cooking: TX761+  
    Cooking process: TX683  
Baking aids: TP431+  
Baking pans  
    Cooking: TX657.B34  
Baking powder  
    Food processing: TP432  
    Nutrition: TX409  
Balances  
    Aeronautical research: TL567.B3  
Balancing  
    Aircraft propellers: TL706.B3  
    Steam engines: TJ520  
Balata  
    Rubber industry: TS1935  
Balconies  
    Wall details: TH2251.2  
Bald persons  
    Photographic portraits: TR681.B35  
Baldwin Locomotive Works: TJ625.B2  
Baling  
    Cotton manufactures: TS1585  
Ball and roller bearings  
    Machinery: TJ1071  
Ball grid array technology  
    Electronic packaging: TK7870.16  
Ball-point pens  
    Stationery: TS1267  
Ballast  
    Airships: TL662.B3  
    Balloons: TL625.B2  
    Railway construction: TF250  
Ballast water  
    Water pollution: TD428.B34  
Ballast water treatment facilities  
    Water pollution: TD428.B34  
Ballistic missile defenses  
    Environmental effects: TD195.B34  
Ballistic ranges  
    Aeronautical research: TL567.B33  
Ballonet  
    Balloons: TL625.B3  
Balloon ascensions: TL620.A1+

Balloon decorations  
    Decorative crafts: TT926  
Balloon jumping: TL632  
Balloon pilots, Licensing of: TL626.5  
Balloon railways: TL639  
Balloon sculpture  
    Decorative crafts: TT926  
Balloons  
    Aeronautics: TL609+  
Balls, Metal  
    Engineering and construction:  
        TA492.B3  
Balsa craft  
    Woodworking: TT189  
Balsamic vinegar: TP429.2  
Bamboo  
    Engineering materials: TA455.B3  
    Housing material: TH4818.B3  
    Nature photography: TR726.B25  
    Woodpulp industry: TS1176.4.B3  
Bamboo work  
    Woodworking: TT190  
Banana craft: TT873.2  
Bananas  
    Cooking: TX813.B3  
    Food processing and manufacture:  
        TP441.B34  
    Food values: TX558.B3  
Bandannas  
    Clothing manufacture: TT667.5  
Bannerets  
    Building construction: TH2495  
Banners  
    Textile arts: TT850.2  
Banners industry: TS2301.F6  
Banyan VINES: TK5105.8.V56  
Barbecue cooking: TX840.B3  
Barbecues  
    Building construction: TH4961.5  
Barbed wire: TS271  
Barbering: TT950+  
Barbers' manuals: TT960  
Barbers, Recipes for (for hair  
    preparations): TT977  
Bare wires  
    Electric power: TK3321

## INDEX

- Barite
  - Mining engineering: TN948.B18
- Barium
  - Chemical technology: TP245.B2
  - Ore deposits and mining: TN490.B2
- Bark
  - Nature photography: TR726.B3
- Barley
  - Food values: TX558.B35
- Barns
  - Building construction: TH4930
- Barograph
  - Aeronautical instrument: TL589.2.B3
- Barrages
  - Hydraulic engineering: TC540+
- Barrels
  - Manufactures: TS890
  - Packaging: TS198.6.B3
- Barrier-free design
  - House remodeling: TH4816.15
  - Transportation engineering: TA1285
- Barrooms: TX950+
- Bars
  - Furniture: TT197.5.B3
  - Plastics: TP1183.B3
  - Plumbing: TH6518.B2
  - Structural engineering: TA660.B3
  - Taverns, barrooms, saloons: TX953
- Bars, Reinforcing
  - Reinforced concrete construction: TA683.42
- Bartenders' manuals and recipes: TX951
- Base course
  - Highway engineering: TE212
- Base flow
  - Aerodynamics: TL574.B3
- Base-heating stoves
  - Convective heating: TH7436.B3
- Baseball fields
  - Environmental effects: TD195.S68
- Baseball players
  - Photographic portraits: TR681.B37
- Basements
  - Building design and construction: TH3000.B36
  - Drainage: TH6671.C3
- Basements
  - House remodeling: TH4816.3.B35
  - Ventilation: TH7684.B35
- Basic Bessemer process
  - Steel metallurgy: TN738
- Basic open hearth process
  - Steel metallurgy: TN742
- Basil
  - Cooking: TX819.B37
- Basins
  - Aeronautical research: TL567.B4
  - Plumbing: TH6490
- Basketmaking
  - Manufactures: TS910
- Baskets
  - Balloons: TL625.B4
  - Decorative crafts: TT879.B3
  - Wood products: TS913
- Bass
  - Cooking: TX748.B37
- Bast
  - Textile fiber: TS1544.B3
- Bast work
  - Decorative crafts: TT875
- Batch production
  - Manufacturing engineering: TS178.2
- Bathroom fixtures, Catalogs of
  - Plumbing: TH6489
- Bathrooms
  - Building design and construction: TH3000.B38
  - House remodeling: TH4816.3.B37
  - Plumbing: TH6485+
- Baths
  - Plumbing: TH6491+
- Baths, Public
  - Building construction: TH4761
  - Plumbing: TH6518.B3
- Bati oil
  - Chemical technology: TP684.B3
- Batik
  - Textile decoration: TT852.5
- Battenberg lace: TT805.B36
- Batteries
  - Aircraft: TL691.B3
  - Electric vehicles: TL220+

## INDEX

### Batteries

- Household
  - Waste disposal: TD799.8
- Motor vehicles: TL272
- Space vehicles: TL1102.B3
- Telephone plants: TK6278

### Batters

- Food processing and manufacture:
  - TP451.B38

### Battery chargers

- Electrical engineering: TK2943

### Bauxite

- Mining: TN490.A5
- Prospecting: TN271.B3

### Bauxite industry

- Environmental effects: TD195.A37

### Bauxite mines and mining

- Water pollution: TD428.A48

### Bay and bow windows

- Building design and construction:
  - TH2265

### Bay window roofs

- Building construction: TH2423

### BBC microcomputer: TK7889.B3

### BEA Weblogic

- Web authoring software:
  - TK5105.8885.B4

### Beach nourishment: TC332

### Beacon receiver

- Aeronautical navigation: TL696.B5

### Beacons

- Aeronautical navigation: TL696.B4

### Beacons for aircraft: TL727+

### Bead crochet

- Decorative crafts: TT861.3

### Bead flowers

- Decorative crafts: TT890.2

### Beads industry: TS2301.B4

### Beadwork

- Decorative crafts: TT859.8+, TT860

### Beam and girder bridges: TG350+

### Beamed-energy propulsion

- Rockets: TL783.7

### Beams

- Bridge engineering: TG350+
- Hoisting machinery: TJ1367

### Beams

- Reinforced concrete construction:
  - TA683.5.B3
- Structural engineering: TA660.B4
- Wooden construction: TA666.5.B43

### Beams, Castellated

- Structural engineering: TA660.C37

### Beams, Continuous

- Structural engineering: TA660.B43

### Beams, Flitch

- Structural engineering: TA660.F57

### Beams, Steel

- Structural engineering: TA660.S66

### Beans

- Cooking: TX803.B4
- Food values: TX558.B4

### Beans, Dried: TP444.B38

### Bearing pads

- Cement and concrete construction:
  - TA682.445

### Bearings

- Airplanes: TL697.B4
- Bridge engineering: TG326
- Gasoline automobiles: TL214.B43
- Generators: TK2458.B4
- Jet engines: TL709.5.B4
- Locomotives: TJ669.B4
- Machinery: TJ1061+
- Miscellaneous motors and engines:
  - TJ762.B4
- Railroad cars: TF389
- Structural engineering: TA660.B45
- Turbines: TJ267.5.B43

### Beartrap dams: TC549

### Beauty culture: TT950+

### Beauty shop practice: TT950+

### Bedding

- Handicrafts: TT399+

### Bedroom furniture

- Woodworking: TT197.5.B4

### Bedrooms

- House remodeling: TH4816.3.B43

### Beds

- Wood manufactures: TS886.5.B4

### Bedsprads

- Handicrafts: TT403

## INDEX

- Bedsteads
  - Wood manufactures: TS886.5.B4
- Beef
  - Cooking: TX749.5.B43
  - Food values: TX556.B4
- Beer
  - Brewing and malting: TP577
  - Cooking: TX726.3
- Beeswax
  - Chemical technology: TP678
- Beet
  - Sugars and syrups: TP390+
- Beetles
  - Deterioration of wood: TA423.63
- Beets
  - Food processing and manufacture: TP444.B4
- Behavior modification
  - Industrial safety: T55.3.B43
- Behavior of materials under applied forces: TA404.8+
- Belgian stone blocks: TE263
- Bellmen
  - Hotels, clubs, restaurants, etc.: TX926
- Bellows
  - Machinery: TJ247.5
- Bells
  - Manufactures: TS583+
- Belt gearing
  - Mechanical engineering: TJ1100+
- Belt shifters
  - Mechanical engineering: TJ1107
- Belt transmission
  - Mechanical engineering: TJ1100+
- Belting
  - Fire testing: TH9446.5.B44
  - Mechanical engineering: TJ1105
- Belts
  - Clothing manufacture: TT668
  - Fire testing: TH9446.5.B44
- Belts for assembly line production
  - Conveying machinery: TJ1390+
- Belts industry: TS2301.B5
- Bench fitting
  - Machine shops: TJ1315
- Bench work
  - Machine shops: TJ1315
- Bending
  - Iron and steel work: TA890+
- Bending machines
  - Machine shops: TJ1300
- Bending moments
  - Structural analysis: TA648.4
- Benefits-to-costs ratios
  - Engineering economy: TA177.7
- Bent iron work
  - Handicrafts: TT240
- Bentley automobiles: TL215.B4
- Bentonite
  - Mining engineering: TN948.B4
- Benzene
  - Air pollutants: TD887.B43
  - Chemical technology: TP248.B4
  - Environmental pollutants: TD196.B38
  - Fuel: TP359.B4
- Benzoic acid
  - Chemical technology: TP248.B5
- Benzoin
  - Gums and resins: TP979.5.B4
- Benzol
  - Fuel: TP359.B4
- Benzopyrene
  - Air pollutants: TD887.B45
  - Soil pollutants: TD879.B4
- Benzpyrene
  - Environmental pollutants: TD196.B4
- Bergamot oil
  - Organic chemical industries: TP959.B4
- Berlinite crystals
  - Electronic materials: TK7871.15.B47
- Berries
  - Cooking: TX813.B4
  - Food processing: TP441.B4
  - Preservation and storage: TX612.B4
- Beryl
  - Mining engineering: TN948.B45
- Beryllium
  - Chemical technology: TP245.B4
  - Engineering materials: TA480.B4
  - Metallography: TN693.B4
  - Metallurgy: TN799.B4

## INDEX

- Beryllium
  - Ore deposits and mining: TN490.B4
  - Prospecting: TN271.B4
  - Soil pollutants: TD879.B47
- Besm computer: TK7889.B4
- Bessemer process
  - Steel metallurgy: TN736+
- Bevel gears
  - Mechanical movements: TJ193+
- Beverage container industry
  - Waste control: TD899.B48
- Beverage containers: TP660
- Beverages
  - Adulteration: TX596+
  - Chemical technology: TP500+
  - Cooking: TX815+
  - Nutrition: TX412+
- BGP
  - Computer network protocols: TK5105.555
- Bicycle paths and tracks
  - Highway engineering: TE301
- Bicycles: TL410+
- Bidets
  - Plumbing: TH6496
- Bilayer lipid membranes
  - Biotechnology: TP248.25.B53
- Billing machines: TK4102
- Bills of fare
  - Cooking: TX727+
- Binary control systems
  - Mechanical engineering: TJ218.7
- Bins
  - Building construction: TH4498
- Biochemical engineering: TP248.3
- Biochemical oxygen demand
  - Sewage: TD737
- Biodegradable plastics: TP1180.B55
- Biodegradation
  - Hazardous substance disposal: TD1061
  - Industrial and factory wastes: TD897.842
  - Radioactive waste disposal: TD898.14.B55
- Biodiesel fuels: TP359.B46
- Bioengineering: TA164+
- Biogas
  - Fuel: TP359.B48
- Biological purification
  - Sewage: TD755+
- Biological treatment
  - Pollution control methods: TD192.5+
  - Water treatment: TD475
- Biomanipulation
  - Environmental technology: TD365.5
- Biomass
  - Fuel: TP339
- Biomass chemicals
  - Chemical technology: TP248.B55
- Biomass energy
  - Environmental effects: TD195.B56
- Biomass stove heating
  - Convective heating: TH7436.5
- BioMEMS
  - Biotechnology: TP248.25.B54
- Biometric identification
  - Electronics: TK7882.B56
- Bionics
  - Bioengineering: TA164.2
- Bioprocess engineering: TP248.3
- Bioreactor processes
  - Biotechnology: TP248.25.B55
- Bioremediation
  - Pollution control methods: TD192.5+
- Biorhythms
  - Industrial accidents: T55.3.B56
- Biosurfactants
  - Chemical technology: TP248.B57
- Biotechnological production
  - Compounds: TP248.65+
- Biotechnology: TP248.13+
  - Environmental effects: TD195.B58
  - Hydrometallurgy: TN688.3.B33
  - Woodpulp industry: TS1176.6.B56
- Biplane characteristics: TL671.3
- Biplanes: TL684.4
- Bipolar transistors: TK7871.96.B55
- Bird control
  - Airports: TL725.3.B5
- Birds
  - Embroidery: TT773
  - Nature photography: TR729.B5

## INDEX

- Birthday cards
  - Decorative crafts: TT872
- Biscuits
  - Cooking: TX770.B55
- Bismuth
  - Chemical technology: TP245.B5
  - Metallography: TN693.B5
  - Metallurgy: TN799.B5
  - Ore deposits and mining: TN490.B6
- Bistatic radar: TK6592.B57
- Bit-interleaved coded modulation
  - Wireless communication systems: TK5103.26
- BITNET
  - Computer networks: TK5105.875.B57
- Bits
  - Machine tools: TJ1186
- Bitumen
  - Mining engineering: TN850
  - Petroleum products: TP692.4.B5
  - Soil stabilization: TE210.5.B5
- Bituminization
  - Radioactive waste disposal: TD898.173
- Bituminous coal
  - Mining: TN825+
- Bituminous materials
  - Air pollutants: TD887.B58
  - Engineering materials: TA455.B5
  - Highway engineering: TE221
- Bituminous pavements
  - Highway engineering: TE266+
- Black processes
  - Industrial photography: TR923
- Blackboard drawing
  - Technical education: T65.5.B5
- Blackboard drawing, Technical: T361
- Blackhouses
  - Construction: TH4822
- Blacking materials
  - Chemical technology: TP944
- Blacks
  - Photographic portraits: TR681.B52
- Blacks (Pigments)
  - Organic chemical industries: TP951
- Blacksmithing: TT218+
- Blackwork embroidery: TT778.B5
- Blades
  - Aircraft propellers: TL707.B6
  - Jet engines: TL709.5.B6
  - Turbines: TJ267.5.B5
- Blank books
  - Stationery: TS1250
- Blank forms
  - Dressmaking: TT522
- Blankets
  - Handicrafts: TT405
- Blast engines
  - Pneumatic machinery: TJ963
- Blast furnaces
  - Metallurgy: TN713+
  - Noise control: TD893.6.B58
- Blast loads
  - Structural engineering: TA654.7
- Blast resistant design
  - Structural engineering: TA658.42
- Blasting
  - Excavations: TA748
  - Mining: TN279
- Bleaches
  - Textiles: TP894.5
- Bleaching
  - Laundry work: TT991
  - Oils, fats, waxes: TP673
- Bleaching of pulp
  - Woodpulp industry: TS1176.6.B6
- BLEND: TK5105.8.B57
- Blender
  - Computer animation: TR897.72.B55
- Blender recipes
  - Cooking: TX840.B5
- Blimps: TL656.2
- Blind
  - Photographic portraits: TR681.B54
- Blind flight
  - Airplanes: TL711.B6
- Blinds
  - Window fittings: TH2276
- Block adjustment
  - Photographic triangulation: TA593.83
- Block printing
  - Textile arts and crafts: TT852+
- Block systems
  - Railway operation: TF630



## INDEX

- Blocks
  - Hoisting machinery: TJ1357
- Blood products
  - Biotechnology: TP248.65.B56
- Blouses
  - Women's tailoring: TT545
- Blow-off cocks
  - Plumbing explosion prevention: TH6566
- Blowers and fans
  - Pneumatic machinery: TJ960+
- Blowoffs
  - Furnaces: TJ358
- Blowouts
  - Well drilling: TN871.215
- Blue john
  - Mineral industries: TN989.B55
- Blue processes
  - Industrial reproduction: TR921
- Blueberries
  - Cooking: TX813.B5
- Bluefish
  - Cooking: TX748.B55
- Blueing
  - Laundry work: TT991
- Blueprint reading
  - Airplanes: TL671.25
  - Mechanical drawing: T379
- Blueprints
  - Industrial reproduction: TR921
- Blueprints from photographic negative
  - Photographic processes: TR415
- Bluetooth (Wireless communication systems): TK5103.3
- BMW automobiles: TL215.B25
- BMW motorcycle: TL448.B18
- BMW X3 sport utility vehicle: TL230.5.B68
- Board roofing
  - Building construction: TH2438
- Boat railways: TC771+
- Boat trailers
  - Motor vehicles: TL297.2
- Boating
  - Environmental effects: TD195.B63
- Boats
  - Environmental effects: TD195.B63
- Boats
  - Seashore photography: TR670.5
- Bobbers (Motorcycles): TL442.7
- Bobbin lace: TT805.B63
- Bobbinite
  - Explosives: TP290.B7
- Bodies-in-white
  - Motor vehicles: TL255.15
- Body area networks: TK5103.35
- Bodybuilders
  - Nutrition: TX361.B64
  - Photographic portraits: TR681.B57
- Boeing Aircraft Company: TL686.B65
- Bogs
  - Reclamation: TC975
- Boiler accessories: TJ288
- Boiler compounds
  - Steam boilers: TJ392
- Boiler details and accessories: TJ320+
- Boiler plants
  - Mechanical engineering: TJ395+
- Boiler scale
  - Steam boilers: TJ390+
- Boilermaking
  - Steam boilers: TJ290+
- Boilers
  - Central heating: TH7470+
  - High-pressure hot water heating: TH7534.A+
  - Hot water heating: TH7538+
  - Locomotives: TJ642
  - Low-pressure hot water heating: TH7529
  - Machinery: TJ263.5
  - Steam heating: TH7588+
- Boiling
  - Cooking process: TX685
- Boiling water reactors
  - Nuclear engineering: TK9203.B6
- Bolex motion picture camera: TR883.B6
- Bolt action rifle: TS536.6.B6
- Bolt cutters
  - Fasteners: TJ1333
- Bolts
  - Railway construction: TF261

## INDEX

- Bolts and nuts
  - Fasteners: TJ1330+
- Bolts, Metal
  - Engineering materials: TA492.B63
- Bombproof construction
  - Building construction: TH1097
- Bombproof shelters
  - Building construction: TH1097
- Bonding
  - Aircraft communication equipment: TL694.I6
  - Metal finishing: TS718
  - Plastics: TP1165
  - Wood products: TS857
- Bone, Articles of
  - Manufactures: TS1050
- Bone, Coloring of
  - Painting: TT370
- Bone craft: TT288
- Bone products
  - Manufactures: TS1982
- Book illustration
  - Photomechanical processes: TR927
- Bookcases
  - Woodworking: TT197.5.B6
- Bookkeeping, Household: TX326.A1+
- Books
  - Decorative crafts: TT896.3
- Boosters
  - Dynamolectric machinery: TK2697
  - Locomotives: TJ669.B6
- Bootmaking
  - Leather industries: TS989+
- Bopp's signaling system: TF628
- Borates
  - Mining engineering: TN917
- Borax
  - Mining engineering: TN917
- Borehole mining: TN281.5
- Borides
  - Engineering materials: TA455.B65
- Boriding
  - Metal finishing: TS695.3
- Boring attachments
  - Machine shops: TJ1220
- Boring machinery
  - Wells: TD414
- Boron
  - Chemical technology: TP245.B6
  - Prospecting: TN271.B6
  - Water pollutants: TD427.B67
- Boron alloys
  - Metallography: TN693.B6
- Boron organic compounds
  - Chemical technology: TP248.B6
- Boron steel
  - Engineering and construction: TA479.B6
  - Metallurgy: TN757.B6
- Boss
  - Aircraft propellers: TL707.B7
- Bottle jackets
  - Decorative crafts: TT879.J3
- Bottler's machinery and supplies: TP659.A1+
- Bottles
  - Glassware: TP866
- Bottling: TP659.A1+
- Bottling plants
  - Noise control: TD893.6.B68
- Boundary layer
  - Aerodynamics: TL574.B6
- Boundary value problems
  - Engineering mathematics: TA347.B69
- Bow caps
  - Airships: TL662.B7
- Bowfin
  - Cooking: TX748.B67
- Bowling alleys
  - Fire prevention and extinction: TH9445.B6
- Box coil radiators
  - Hydronic systems: TH7493
- Box craft
  - Decorative crafts: TT870.5
  - Woodworking: TT190.6
- Box furniture
  - Woodworking: TT197
- Box girder bridges: TG362
- Box making
  - Decorative crafts: TT870.5
  - Manufactures: TS900
- Boxes
  - Packaging: TS198.B6

## INDEX

- Boxes
  - Woodworking: TT197.5.B68
- Boxes, Paper
  - Manufactures: TS1200.A1+
- Boys
  - Photographic portraits: TR681.B6
- Boys, Projects for
  - Handicrafts: TT159+
- Bracing
  - Airplanes: TL671.5
- Brackets
  - Machinery: TJ1065
- Braid
  - Decorative crafts: TT880
- Braid (Machine made)
  - Textile industries: TS1782.5
- Braided structures
  - Engineering materials: TA418.9.B73
- Braids
  - Hairwork: TT975
  - Silk manufactures: TS1687
- Braising
  - Cooking process: TX686
- Brake gear
  - Railroad cars: TF415+
- Brakes
  - Airplanes: TL683.B7
  - Electric railways: TF949.B7
  - Elevators: TJ1377
  - Locomotives: TJ669.B7
  - Machinery: TJ1060
  - Motor vehicles: TL269+
- Bran
  - Food values: TX558.B6
- Brandy: TP599
- Brass
  - Engineering materials: TA480.C7
  - Manufactures: TS564+
- Brassieres
  - Clothing manufacture: TT677
- Braziers
  - Radiative heating: TH7423
- Brazilian dimensional embroidery:
  - TT778.B73
- Brazing
  - Handicrafts: TT267
- Bread
  - Cereals: TX394
  - Cooking: TX769+
  - Food values: TX558.B7, TX560.B8
- Bread flowers
  - Decorative crafts: TT890.3
- Breadfruit
  - Cooking: TX813.B73
- Breakers
  - Ore dressing and milling: TN510
- Breakfasts
  - Cooking: TX733
- Breakwaters
  - Coast protective works: TC333
- Breathing apparatus
  - Fire prevention and extinction:
    - TH9396
- Breeches
  - Men's tailoring: TT610
- Breeder reactors
  - Nuclear engineering: TK9203.B7
- Bréguet (Aircraft manufacturer):
  - TL686.B68
- Breweries
  - Air pollution: TD888.B74
  - Building construction: TH4531
- Brewing
  - Beverages: TP568+
- Brick
  - Fire-resistive building construction:
    - TH1077+
  - Housing material: TH4818.B7
  - Masonry construction: TA679
  - Masonry materials: TA432+
  - Pavements: TE255
  - Sewer design and construction:
    - TD680
  - Sidewalks: TE287
- Brick building construction: TH1301
- Brick ovens
  - Cooking: TX657.O57
- Brick walls
  - Building design and construction:
    - TH2243
- Bricked-in boilers
  - Hot water heating: TH7539

## INDEX

- Bricked-in furnaces
  - Hot water heating: TH7539
  - Hydronic systems: TH7473
  - Steam heating: TH7589
- Bricklaying
  - Building construction: TH5501+
- Brickmaking
  - Chemical technology: TP826+
- Brickmaking machinery: TP829
- Bricks
  - Chemical technology: TP826+
- Brickworks
  - Dust removal: TH7697.B75
- Bridge accidents: TG470
- Bridge approaches
  - Highway engineering: TE216
- Bridge circuits
  - Electronic circuits: TK7868.B7
- Bridge design: TG300+
- Bridge details: TG326
- Bridge drafting: TG300+
- Bridge engineering: TG1+
- Bridge erection: TG315
- Bridge estimates: TG313
- Bridge foundations: TG320
- Bridge testing: TG305
- Bridges
  - Computer networks: TK5105.543
  - Engineering: TG1+
  - Environmental effects: TD195.B74
  - Models: TG307
- Bridges, Small
  - Highway engineering: TE213
- Brine
  - Industrial electrochemistry: TP261.B7
- Brines
  - Petroleum geology: TN870.515
- Brining
  - Food preservation: TP371.44
- Briquets and briquetting
  - Fuel: TP323
- Briquetting
  - Chemical engineering: TP156.B7
- Brittany cooking: TX719.2.B74
- Brittle fracture
  - Structural analysis: TA656.4
- Brittle states
  - Plastic properties and tests: TA418.16+
- Broaches
  - Machine tools: TJ1186
- Broadband amplifiers: TK7871.58.B74
- Broadband communication systems: TK5103.4+
- Broadcast data systems
  - Wireless communication systems: TK5103.487
- Brocade
  - Silk manufactures: TS1676
- Broccoli
  - Cooking: TX803.B66
- Broiling
  - Cooking process: TX687
- Broken stone
  - Unpaved roads: TE235+
- Bromate
  - Water pollutants: TD427.B75
- Bromine
  - Chemical technology: TP245.B7
- Bromoil
  - Photography: TR443
- Bronze
  - Engineering materials: TA480.C7
  - Manufactures: TS564+
  - Metallography: TN693.C9
- Bronzing
  - Metal arts and crafts: TT382.8
  - Metal finishing: TS715
  - Painting: TT380
- Broom and brush industry
  - Manufactures: TS2301.B8
- Brown coal
  - Mining: TN831+
- Brown rice
  - Cooking: TX809.B75
- Browning rifles: TS536.6.B76
- Browsers
  - Internet: TK5105.882+
- Branches
  - Cooking: TX733
- Brush holders
  - Generators: TK2484

## INDEX

- Brush industry
  - Manufactures: TS2301.B8
- Brushes
  - Generators: TK2484
- Brussels sprouts
  - Cooking: TX803.B7
- Buckling
  - Structural analysis: TA656.2
- Buckram
  - Wall decoration: TH8471
- Buckskin
  - Leather: TS980.B82
- Buckwheat
  - Cooking: TX809.B8
- Budgets, Household: TX326.A1+
- Buffalo (Meat)
  - Food values: TX556.B8
- Buffets
  - Cooking: TX738.5
- Bugatti automobile: TL215.B82
- Buick automobiles: TL215.B84
- Builders
  - Building construction: TH12+
- Builders' and contractors' bulletins:
  - TH11
- Building accidents: TH443
- Building as a profession: TH159
- Building construction: TH1+
- Building construction systems:
  - TH1000+
- Building control systems: TH6012
- Building defects: TH441
- Building details
  - Building construction: TH2025+
- Building errors: TH441
- Building failures: TH441
- Building fittings: TH6010+
- Building fittings, Catalogs of: TH2055
- Building gas supply
  - Plumbing: TH6800+
- Building information modeling
  - Building construction: TH438.13
- Building-integrated photovoltaic systems
  - Solar energy: TK1087
- Building layout: TH385
- Building materials
  - Environmental pollutants: TD196.B85
- Building materials
  - Fire-testing: TH1092
- Building materials industry
  - Dust removal: TH7697.B8
  - Electric power: TK4035.B83
  - Environmental effects: TD195.B84
- Building of structural elements for landscape construction: TH4961+
- Building operation and housekeeping:
  - TX955+
- Building orientation
  - Environmental engineering of buildings: TH6053
- Building performance
  - Building construction: TH453
- Building sites
  - Building construction: TH375+
  - Electric lighting: TK4399.B8
  - Fire prevention and extinction:
    - TH9445.B8
- Building standards: TH420
- Building stones
  - Mining engineering: TN950+
- Building supplies catalogs: TH455
- Building supply companies: TH12+
- Building trades
  - Construction: TH5011+
- Buildings
  - Airports: TL725.3.B8
  - Energy conservation: TJ163.5.B84
  - Painting: TT320+
  - Protection from lighting: TH9057+
  - Protection of
    - Building construction: TH9025+
- Built-in furniture
  - Woodworking: TT197.5.B8
- Bulat steel: TA479.B7
- Bulgur
  - Cooking: TX809.B85
- Bulk solids
  - In-plant transportation: TS180.8.B8
- Bulk solids handling
  - Dust removal: TH7697.B82
- Buoys
  - Lighthouses: TC380
- Burbling
  - Aerodynamics: TL574.T8

## INDEX

Burbot  
  Cooking: TX748.B85  
Burglar alarms  
  Security in buildings: TH9739  
Burglar-proof construction  
  Building construction: TH9720+  
Burglary, Protection from  
  Building construction: TH9701+  
Burgundy cooking: TX719.2.B87  
Burial  
  Sewage disposal: TD771  
Burlap  
  Jute industries: TS1735  
Burners  
  Building gas supply: TH6880  
  Gas stove heating: TH7457.B8  
Bus driving: TL232.3  
Buses: TL232+  
  Computer engineering: TK7895.B87  
Bush flying: TL711.B88  
Business getting  
  Electrical engineering: TK445  
Business management  
  Gas industry: TP751.3  
Business methods  
  Portrait photography: TR581  
Business parks  
  Environmental effects: TD195.B87  
Bussing attendants  
  Hotels, clubs, restaurants, etc.:  
    TX925  
Butane  
  Gas industry: TP761.B8  
Butanediol  
  Chemical technology: TP248.B78  
Butanone  
  Chemical technology: TP248.B8  
Butchering  
  Manufactures: TS1960+  
Butchers' meats  
  Nutrition: TX373  
Butlers  
  Hotels: TX927  
Butter  
  Cooking: TX759.5.B87  
  Nutrition: TX381

Button industry  
  Manufactures: TS2301.B9  
Buttons  
  Women's tailoring: TT557  
Butylene  
  Chemical technology: TP248.B87  
Buyers' guides  
  Motor vehicles: TL162  
Buzzer systems  
  Telegraph: TK5522  
By-products  
  Food processing and manufacture:  
    TP373.8  
  Gas industry: TP755  
  Wine and winemaking: TP548.5.B9  
By-products of combustion  
  Chemical technology: TP365

## C

Cabbage  
  Cooking: TX803.C3  
  Food processing and manufacture:  
    TP444.C3  
  Food values: TX558.C2  
Cabin  
  Airplanes: TL681.C3  
Cabin atmosphere  
  Space environment: TL1530  
Cabinet projection  
  Mechanical drawing: T365  
Cabinetwork  
  Woodworking: TT197  
Cable  
  Mountain railways: TF682  
  Submarine telegraph: TK5671  
Cable laying and repairing  
  Submarine telegraph: TK5662+  
Cable laying systems  
  Submarine telegraph: TK5681  
Cable railways: TF835  
Cable-stayed bridges: TG405  
Cable structures  
  Structural engineering: TA660.C3  
Cables  
  Electric power: TK3301+  
  Standards and testing: TK3307

## INDEX

- Cables
  - Structural engineering: TA660.C3
  - Submarine telegraph: TK5661+
  - Telegraph: TK5481
- Cableways
  - Conveying machinery: TJ1385+
- Cabooses
  - Railway equipment: TF485
- Cacao
  - Chemical technology: TP640
  - Food values: TX560.C2
- Cacao butter
  - Chemical technology: TP684.C2
- Cache memory
  - Computer engineering: TK7895.M4
- CAD/CAM systems
  - Production management: TS155.6+
- Cadillac automobiles: TL215.C27
- Cadmium
  - Air pollutants: TD887.C34
  - Chemical technology: TP245.C2
  - Effect on food: TX572.C24
  - Electroplating: TS692.C18
  - Environmental pollutants: TD196.C28
  - Metallurgy: TN799.C2
  - Ore deposits and mining: TN490.C2
  - Soil pollutants: TD879.C33
  - Water pollutants: TD427.C33
- Cadmium alloys
  - Electronics: TK7871.15.C33
- Cadmium industry
  - Waste control: TD899.C25
- Caesium
  - Chemical technology: TP245.C25
- Cafeterias
  - Food service: TX945+
- Caissons
  - Hydraulic engineering: TC199
- Cake decorating
  - Cooking: TX771.2
- Cake pops
  - Cooking: TX771.4
- Cakes
  - Cooking: TX771+
- Calcinining
  - Building decoration: TH8161
- Calcium
  - Chemical technology: TP245.C3
  - Food constituent: TX553.C23
  - Metallurgy: TN799.C25
- Calcium carbide
  - Acetylene industry: TP770
- Calcium chloride
  - Soil stabilization: TE210.5.C3
- Calcium cyanamide
  - Fertilizers: TP963.4.C3
- Calcium gluconate
  - Chemical technology: TP248.C15
- Calcium oxide
  - Environmental pollutants: TD196.L55
- Calcium steel
  - Metallurgy: TN757.C35
- Calcium sulfate
  - Effect on food: TX572.C3
- Calculus of variations
  - Engineering mathematics: TA347.C3
- Calendering
  - Paper manufacture: TS1118.C34
  - Plastics: TP1175.C3
- Calenders
  - Paper manufacture: TS1118.C34
- Calibration
  - Mechanical engineering: TJ211.419
- Calico printing: TP930+
- California style cooking: TX715.2.C34
- Calipers
  - Machine shops: TJ1313
- Caloric engines: TJ765
- Calorizing
  - Metal finishing: TS657
- Calotypes
  - Photographic process: TR395
- Camber
  - Airplanes: TL673.C3
- Camcorders
  - Photography: TR882.3
- Camel meat
  - Food values: TX556.C35
- Camel's hair
  - Textile fiber: TS1548.C3
- Camera accessories
  - Photography: TR265

## INDEX

- Camera tubes
  - Television: TK6655.C3
- Cameras
  - Individual makes: TR263.A+
  - Photography: TR250+
- Camouflage
  - Airports: TL725.3.C3
- Camp cooking: TX823
- Camp sites, facilities, etc.
  - Waste control: TD899.C27
- Campgrounds
  - Sanitary engineering: TD931
- Camphor
  - Chemical technology: TP248.C2
- Cams
  - Mechanical engineering: TJ206
- Camshafts
  - Gasoline automobiles: TL214.C35
- Camtasia Studio
  - Computer animation software: TR897.72.C36
- Can privies
  - Sewage disposal: TD780
- Canal aqueducts: TC764
- Canal embankments: TC759
- Canal gates: TC762
- Canal locks: TC761
- Canalboats: TC765
- Canals
  - Hydrodynamics: TC175+
  - Inland navigation: TC601+
- Canapes
  - Recipes: TX740
- Canard wings
  - Airplanes: TL673.C35
- Candlepower: TK4175
- Candles
  - Chemical technology: TP993
  - Decorative crafts: TT896.5
- Candlesticks
  - Woodworking: TT197.5.L34
- Candlewicking
  - Embroidery: TT778.C24
- Candy
  - Cooking: TX784+
- Candymakers' tools
  - Cooking: TX793
- Cane sugar
  - Chemical technology: TP375+
- Canes
  - Manufactures: TS2301.C3
- Canned foods
  - Cooking: TX821
  - Food values: TX552
- Cannel coal
  - Mining: TN827
- Canneries
  - Sanitary engineering: TH6057.C6
  - Waste control: TD899.C3
- Canning
  - Food processing: TP371.3+
  - Storage of foods: TX603
- Canola oil
  - Cooking: TX819.C36
- Canon cameras
  - Photography: TR263.C3
- Cans
  - Packaging: TS198.C3
- Canteens
  - Factories: TX946.5.A1+
  - Food service: TX946
- Cantilever bridges: TG385
- Canvas embroidery: TT778.C3
- Capacitance meters and measurements
  - Electrical engineering: TK335
- Capacitors
  - Electronics: TK7872.C65
- Capes
  - Women's tailoring: TT530
- Capillarity
  - Petroleum geology: TN870.52
- Capillary electrophoresis
  - Biotechnology: TP248.25.C37
- Capitals (of columns)
  - Building design and construction: TH2252+
- Caps
  - Explosives: TP293
  - Window and door openings: TH2261+
- Capsules
  - Packaging: TS198.C33
- Captive balloons: TL634+
- Car bodies
  - Railroad cars: TF400



## INDEX

- Car building
  - Railway equipment: TF371+
- Car construction
  - Electric railways: TF949
  - Railroads: TF380+
- Car fenders
  - Electric railways: TF947
- Car heating
  - Electric railways: TF945
- Car interchange systems
  - Trains: TF605+
- Car lighting
  - Electric railways: TF940
- Car resistance
  - Electric railways: TF962
- Car sanitation
  - Railway equipment: TF445+
- Car service associations
  - Trains: TF605+
- Car trucks, Railroad: TF380+
- Car wiring and equipment
  - Electric railways: TF925
- Caramel
  - Recipes: TX767.C37
  - Sugar products: TP414.4
- Carbazoles
  - Textile dyes: TP918.C37
- Carbodiimides
  - Chemical technology: TP248.C24
- Carbohydrates
  - Biotechnology: TP248.65.P64
  - Chemical technology: TP248.C27
  - Food constituent: TX553.C28
- Carbolic acid
  - Chemical technology: TP248.C3
  - Environmental pollutants: TD196.C33
- Carbon
  - Chemical technology: TP245.C4
  - Electricity production: TK2945.C37
  - Electronics: TK7871.15.C35
  - Engineering materials: TA455.C3
- Carbon compounds
  - Biotechnology: TP248.65.C35
- Carbon dioxide
  - Air pollutants: TD885.5.C3
  - Chemical technology: TP244.C1
  - Water pollution: TD427.C37
- Carbon dioxide pasteurization, Dense phase
  - Food preservation: TP371.46
- Carbon dioxide treatment
  - Food preservation: TP371.46
- Carbon disulfide
  - Air pollutants: TD887.C37
  - Chemical technology: TP248.C34
- Carbon lamps: TK4352
- Carbon monoxide
  - Air pollutants: TD885.5.C33
- Carbon processes
  - Photography: TR440
- Carbon steel
  - Engineering and construction: TA479.C37
- Carbonated beverages: TP628+
- Carbonatites
  - Mining engineering: TN948.C3
- Carbonization
  - Chemical engineering: TP156.C3
- Carbonization of coal
  - Fuel: TP336
- Carbons
  - Electric lighting: TK4335
  - Manufacture: TK7725
- Carbons, Natural
  - Metallurgy: TN845+
- Carborundum
  - Abrasive: TJ1298
  - Industrial electrochemistry: TP261.C3
- Carboxymethyl cellulose
  - Chemical technology: TP248.C38
- Carburetion
  - Gasoline automobiles: TL212
- Carburetion, ignition, etc.
  - Internal combustion engines: TJ787+
- Carburetors
  - Aircraft engines: TL702.C3
  - Gasoline automobiles: TL212
- Card weaving
  - Textile arts: TT848+
- Cardboard: TS1135+
  - Decorative crafts: TT870+
- Carding
  - Cotton manufactures: TS1578
  - Textile manufactures: TS1485+

## INDEX

- Carding
  - Woolen manufactures: TS1628
- Carding machines: TS1487
- Care of the house: TX323
- Cargo planes: TL685.7
- Carnallite
  - Mining engineering: TN948.C34
- Carnival
  - Decorative crafts: TT900.C37
- Carob
  - Cooking: TX814.5.C35
- Carotinoids
  - Food constituent: TX553.C3
- Carp
  - Cooking: TX748.C35
- Carpentry
  - Building construction: TH5601+
- Carpet yarns
  - Textile dyeing: TP931.C2
- Carpets
  - Fire testing: TH9446.5.C35
  - Measuring, cutting, laying: TS1779.5
  - Textile manufactures: TS1772+
- Carpets, Hand-made
  - Textile arts: TT850
- Carports
  - Building construction: TH4960
- Carrageenan
  - Food processing and manufacture: TP445.5.C35
- Carriage body
  - Motor vehicles: TL255+
- Carriage hardware: TS2035
- Carriage houses
  - Plumbing: TH6518.C3
- Carriage making
  - Manufactures: TS2001+
- Carriage painters, Scrolls and designs for: TS2032
- Carriage painting: TS2030+
- Carrier control systems
  - Mechanical engineering: TJ218
- Carrots
  - Cooking: TX803.C35
- Carrying
  - Industrial safety: T55.3.L5
- Cars
  - Airships: TL662.C3
  - Electric railways: TF920+
- Carving
  - Woodworking: TT199.7+
- Carving, Table
  - Dining-room service: TX885
- Cascades
  - Aerodynamics: TL574.C3
  - Turbines: TJ267.5.C3
- Case hardening
  - Steel metallurgy: TN752.C3
- Case method
  - Technical education: T65.5.C3
- Casein
  - Chemical technology: TP248.C4
  - Plastics: TP1180.C2
- Cashew oil
  - Chemical technology: TP684.C275
- Cashiering
  - Hotels, clubs, restaurants, etc.: TX911.3.C3
- Casing
  - Well drilling: TN871.22
- Cassava
  - Cooking: TX803.C37
  - Food values: TX558.C35
  - Starch: TP416.T3
- Cassiterite
  - Ore deposits and mining: TN472.C3
- Cast iron
  - Engineering materials: TA474+
  - Metallurgy: TN710+
- Cast iron radiators
  - Hydronic systems: TH7487
- Castellated beams
  - Structural engineering: TA660.C37
- Castigliano's theorem: TA650+
- Casting
  - Metal manufactures: TS228.99+
  - Nonferrous metals: TS375
  - Plastics: TP1150+
- Castings
  - Building construction: TH1651+
  - Foundry work: TS236
- Castor oil
  - Chemical technology: TP684.C3

## INDEX

- Cat food: TS2288.C36
- Catadioptric systems
  - Lenses: TS517.5.C38
- Catalogs
  - Abrading machinery: TJ1287
  - Conveying machinery: TJ1395
  - Drills: TJ1265
  - Electronics: TK7870.3
  - Filter presses: TJ1475
  - Gas engines: TJ776
  - Handtools: TJ1200
  - Hoisting machinery: TJ1353
  - Hydraulic machinery: TJ902
  - Instruments for transmitting sound: TK6418
  - Lighting machinery and supplies: TK4195+
  - Liquors: TP617
  - Machine shop machinery: TJ1175
  - Machine tools: TJ1190
  - Machinery exclusive of prime movers: TJ1051
  - Mechanical engineering equipment: TJ168
  - Mechanical movements: TJ188
  - Motor vehicle dealers: TL160
  - Pipelines: TJ933
  - Presses: TJ1452
  - Radio apparatus: TK6563+
  - Steam boilers: TJ296
  - Steam engines: TJ473
  - Steam powerplants: TJ412
  - Steam pumps: TJ908
  - Telegraph apparatus and supplies: TK5295
  - Telephone apparatus and supplies: TK6195
  - Wind power: TJ827
- Catalysis
  - Chemical engineering: TP156.C35
  - Environmental pollution: TD192.3
- Catalysts
  - Chemical technology: TP159.C3
- Catapults
  - Airports: TL732
- Catechisms
  - Steam boilers: TJ289
- Catechu
  - Textile dyes: TP925.C38
- Caterers' manuals
  - Hotels, clubs, restaurants, etc.: TX921
- Catfish
  - Cooking: TX748.C36
- Catgut industry: TS2301.C4
- Cathedrals
  - Fire prevention and extinction: TH9445.C5
- Cathode ray oscillographs
  - Electronic instruments: TK7878.7
- Cathode ray tube memory systems
  - Computer engineering: TK7895.C382
- Cathode ray tubes
  - Electronics: TK7871.73
  - Radar: TK6590.C3
  - Radio: TK6565.C3
- Cats
  - Nature photography: TR729.C3
- Cattle guards
  - Railway structures: TF277
- Cattle passes
  - Railway structures: TF282
- Cavalier projection
  - Mechanical drawing: T365
- Cave photography: TR788
- Caviar
  - Cooking: TX748.C38
- Cavitation
  - Applied fluid mechanics: TA357.5.C38
  - Chemical engineering: TP156.C38
- CD-ROM drives
  - Computer engineering: TK7895.C39
- CD-ROMs
  - Computer engineering: TK7895.C39
- CDC 6600 computer: TK7889.C2
- CDMA (Wireless communication systems): TK5103.452
- CDPD (Standard)
  - Wireless communication systems: TK5103.48
- CEBUS
  - Computer networks: TK5105.56

## INDEX

- Ceilings
  - Building design and construction: TH2531+
- Celanese
  - Silk manufactures: TS1688.A1+
- Cell adhesion
  - Biotechnology: TP248.25.C42
- Cell culture
  - Biotechnology: TP248.25.C44
- Cell phones
  - Radio: TK6564.4.C45
- Cellars
  - Drainage: TH6671.C3
- Cellophane
  - Plastics: TP1180.C4
- Cellulase
  - Biotechnology: TP248.65.C44
- Celluloid
  - Plastics: TP1180.C5
- Cellulose
  - Aeronautics: TL699.C44
  - Biotechnology: TP248.65.C45
  - Insulating material: TK3441.C35
  - Plastics: TP1180.C6
  - Textile fiber: TS1544.C4
  - Wood composition: TS933.C4
- Cellulose acetate
  - Chemical technology: TP248.C45
- Cellulose insulation
  - Building construction: TH1718
- Cement
  - Analysis: TP882.3
  - Building construction: TH1461+
  - Chemical technology: TP875+
  - Fire-resistive building construction: TH1087
  - Masonry construction: TA680+
  - Masonry materials: TA434+
  - Sewer design and construction: TD682
  - Sidewalks: TE291
- Cement composites: TA438
- Cement construction maintenance and repair: TA682.446
- Cement guns: TA446
- Cement industries
  - Chemical technology: TP875+
- Cement industries
  - Dust removal: TH7697.C4
  - Electric power: TK4035.C25
  - Energy conservation: TJ163.5.C45
- Cement manufacture: TP881+
- Cement materials
  - Mining engineering: TN945
- Cement pipes
  - Engineering materials: TA447
- Cement plants: TP882
  - Air pollution: TD888.C4
- Cement work
  - Handicrafts: TT295
- Cementation processes
  - Steel metallurgy: TN734
- Centering of arches
  - Building construction: TH5591
- Centerpieces
  - Building design and construction: TH2531+
- Central heating
  - Building construction: TH7461+
- Central solar heating plants
  - Building construction: TH7413.5
- Central station management
  - Electric power plants: TK1811
- Central station testing
  - Electric power plants: TK1831
- Central station wiring
  - Electric power: TK3281
- Central stations
  - Electrical engineering: TK3201+
- Central stations, Air conditioning from: TH7687.75
- Central stations for lighting: TK4201+
- Centralized industrial waste treatment facilities: TD897.6
- Centrex telephone systems and services: TK6430
- Centrifugal blowers
  - Pneumatic machinery: TJ969
- Centrifugal pumps
  - Hydraulic machinery: TJ919
- Centrifuges
  - Chemical technology: TP159.C4
- Ceramic bearings
  - Mechanical engineering: TJ1073.C45

## INDEX

- Ceramic decoration: TP823
- Ceramic flowers
  - Decorative crafts: TT890.4
- Ceramic industries
  - Environmental effects: TD195.C42
- Ceramic materials
  - Aeronautics: TL699.C46
  - Electronics: TK7871.15.C4
  - Engineering materials: TA430, TA455.C43
  - Heat engines: TJ255.5
- Ceramic metals
  - Engineering materials: TA479.6
- Ceramic technology: TP807+
- Ceramic tile
  - Building construction: TH8541+
- Ceramics
  - Chemical technology: TP785+
  - Insulating material: TK3441.C38
- Ceramography: TP811.5
- Cereal products
  - Food processing and manufacture: TP434+
- Cereals
  - Cooking: TX808+
  - Food processing and manufacture: TP434+
  - Food values: TX557+
  - Manufactures: TS2120+
  - Nutrition: TX393+
  - Pet food industry: TS2288.C45
- Cereals, Prepared
  - Food processing and manufacture: TP435.C4
- Ceresin
  - Mineral oils and waxes: TP695
  - Mining engineering: TN857
- Cerium
  - Chemical technology: TP245.C45
- Cerussite: TN452.C4
- Cesium
  - Metallurgy: TN799.C4
  - Water pollutants: TD427.C48
- Cesspools
  - Sewage disposal: TD775
- CGI
  - Computer network protocols: TK5105.565
- CGNET
  - Computer networks: TK5105.875.C45
- Chafing dish cooking: TX825
- Chain blocks
  - Hoisting machinery: TJ1359
- Chain gearing
  - Mechanical engineering: TJ1117
- Chains
  - Metal manufactures: TS440+
- Chains, Metal
  - Engineering and construction: TA492.C6
- Chairs
  - Wood manufactures: TS886.5.C45
  - Woodworking: TT197.5.C45
- Chalcopyrite
  - Mining and metallurgy: TN442.C5
- Chalk
  - Mining engineering: TN948.C5
- Challah (Bread)
  - Cooking: TX770.C45
- Challenger automobile: TL215.C44
- Champlevé
  - Handicrafts: TT382.6
- Chandeliers
  - Woodworking: TT197.5.L34
- Channel improvement
  - Hydraulic engineering: TC529
- Channel selectors
  - Television: TK6655.C5
- Channels
  - Structural engineering: TA660.C47
- Channels, Approach
  - Harbor engineering: TC352
- Chaptalization of wine: TP548.5.A38
- Character recognition, Optical: TA1640
- Characterization, Optical
  - Testing of materials: TA417.43
- Charcoal
  - Fuel: TP331
- Charcoal fires
  - Radiative heating: TH7423
- Charge coupled devices
  - Semiconductors: TK7871.99.C45

## INDEX

- Charge transfer devices
  - Semiconductors: TK7871.99.C45
- Chariots transbordeurs
  - Railway structures: TF276
- Charm++ (Computer program language)
  - in computer-aided engineering: TA345.5.P37
- Charts
  - Air navigation: TL587
- Chassis
  - Motor vehicles: TL255+
- Chattering control
  - Control engineering: TJ223.C45
- Cheese
  - Cooking: TX759.5.C48
  - Nutrition: TX382
- Chemical analysis
  - Food: TX545
  - Food adulterants: TX569
- Chemical detectors
  - Chemical technology: TP159.C46
- Chemical engineering: TP155+
- Chemical engineering as a profession:
  - TP186+
- Chemical fire engines
  - Fire prevention and extinction: TH9375
- Chemical industry
  - Energy conservation: TJ163.5.C54
  - Waste control: TD899.C5
- Chemical laboratories
  - Electric power: TK4035.C35
- Chemical lasers
  - Applied optics: TA1690
- Chemical plants: TP155.5+
  - Air pollution: TD888.C5
  - Building construction: TH4524
  - Dust removal: TH7697.C54
  - Electric power: TK4035.C37
  - Environmental effects: TD195.C45
  - Fire prevention and extinction: TH9445.C47
  - Heating and ventilation: TH7392.C56
  - Management: TP155.6
  - Noise control: TD893.6.C45
  - Ventilation: TH7684.C44
- Chemical precipitation
  - Sewage purification: TD751
  - Water purification: TD455
- Chemical preservation
  - Food processing: TP371.4+
- Chemical process control: TP155.75
- Chemical processes: TP155.7+
  - Nuclear engineering: TK9350
- Chemical processing
  - Wood: TS920+
- Chemical propulsion systems: TL783+
- Chemical rockets: TL783+
- Chemical systems
  - Fire prevention and extinction: TH9338
- Chemical technicians: TP186.5
- Chemical technology: TP1+
- Chemical telegraph system: TK5549
- Chemical treatment
  - Pollution control methods: TD192.2+
  - Water purification: TD451+
- Chemical vapor deposition
  - Metal finishing: TS695+
- Chemical weapons
  - Water pollutants: TD427.C54
- Chemicals
  - Chemical technology: TP200+
  - Environmental pollutants: TD196.C45
  - Fire prevention and extinction: TH9446.C5
  - Petroleum products: TP692.3
- Chemicals, Agricultural
  - Environmental pollutants: TD196.A34
  - Soil pollutants: TD879.A35
- Chemistry
  - Home economics: TX149
  - Leather industries: TS967
  - Paper manufacture: TS1120
- Chemistry, Environmental: TD193+
- Chemistry testing
  - Food processing: TP372.5+
- Chemistry, Textile: TS1474.5
- Cherries
  - Cooking: TX813.C4
  - Food processing and manufacture: TP441.C45
  - Preservation and storage: TX612.C5

## INDEX

- Chessmen
  - Decorative crafts: TT896.55
- Chestnuts
  - Cooking: TX814.2.C48
  - Food processing and manufacture: TP439.5.C45
- Chevelle automobiles: TL215.C48
- Chevrolet automobiles: TL215.C5
- Chia
  - Food values: TX558.C38
- Chicken
  - Cooking: TX750.5.C45
- Chickpea
  - Food values: TX558.C4
- Child-resistant packaging: TS198.C46
- Child seats
  - Automobiles: TL159.5
- Children
  - Nutrition: TX361.C5
  - Photographic portraits: TR681.C5
- Children, Articles for
  - Handicrafts: TT174+
- Children's clothing: TT635+
- Children's furniture
  - Woodworking: TT197.5.C5
- Children's playhouses
  - Building construction: TH4967
- Children's rooms
  - House remodeling: TH4816.3.C45
- Chile saltpeter
  - Mining engineering: TN911
- Chilled beams
  - Air conditioning: TH7687.78
- Chimney tops
  - Ventilation of buildings: TH7683.V4
- Chimneys
  - Boiler furnaces: TJ330+
  - Building construction: TH2281+
  - Fire prevention and extinction: TH9445.C48
- Chimneys, Powerplant
  - Building construction: TH4591
- Chinese New Year decorations
  - Decorative crafts: TT900.C38
- Chinese wood oil
  - Chemical technology: TP684.T8
- Chiolite
  - Mining engineering: TN948.C55
- Chip scale packaging
  - Electronics: TK7870.17
- Chitin
  - Biotechnology: TP248.65.C55
- Chlorates
  - Industrial electrochemistry: TP261.C5
- Chlorides
  - Salts: TP233
- Chlorination
  - Gold and silver metallurgy: TN765
  - Sewage disposal: TD747.7
  - Water purification: TD462+
- Chlorine
  - Air pollutants: TD885.5.C47
  - Chemical technology: TP245.C5
  - Sewage treatment: TD758.5.C45
- Chlorine compounds
  - Environmental pollutants: TD196.C5
- Chlorine dioxide
  - Fire prevention and extinction: TH9446.C6
  - Water purification: TD464
- Chlorite
  - Prospecting: TN271.C47
- Chlorofluorocarbons
  - Air pollutants: TD887.C47
- Chlorofluoromethane
  - Air pollutants: TD885.5.C5
- Chloroform
  - Chemical technology: TP248.C5
- Chocolate
  - Nonalcoholic beverages: TP638+
  - Recipes: TX767.C5
- Chocolate beverages
  - Cooking: TX817.C4
- Chocolate, White
  - Cooking: TX767.W48
- Cholesterol
  - Food constituent: TX553.C43
- Choline
  - Food constituent: TX553.C45
- Choppers (Motorcycles): TL442.7
- Christmas
  - Cooking: TX739.2.C45

## INDEX

- Christmas cards
  - Decorative crafts: TT872
- Christmas decorations
  - Decorative crafts: TT900.C4
- Chromatography
  - Chemical engineering: TP156.C5
  - Food analysis: TX548+
- Chrome-manganese steel
  - Metallurgy: TN757.C48
- Chrome-nickel steel
  - Metallurgy: TN757.C49
- Chrome steel
  - Metallurgy: TN757.C5
- Chromic acid: TP217.C5
- Chromic materials
  - Engineering materials: TA455.C45
- Chromium
  - Assaying: TN580.C5
  - Chemical technology: TP245.C6
  - Electroplating: TS692.C4
  - Engineering materials: TA480.C5
  - Environmental pollutants: TD196.C53
  - Metallography: TN693.C5
  - Metallurgy: TN799.C5
  - Ore deposits and mining: TN490.C4
  - Ore dressing and milling: TN538.C57
  - Photography: TR433
  - Prospecting: TN271.C5
  - Soil pollutants: TD879.C45
  - Water pollutants: TD427.C57
- Chromium steel
  - Engineering and construction: TA479.C5
- Chromizing
  - Steel metallurgy: TN752.C5
- Chronophotography: TR840
- Chucks
  - Machine shops: TJ1219
- Church facilities
  - Environmental effects: TD195.C47
- Church supplies industry: TS2301.C5
- Churches
  - Building construction: TH4221
  - Energy conservation: TJ163.5.C57
  - Fire prevention and extinction: TH9445.C5
  - Heating and ventilation: TH7392.C6
- Churches
  - Ventilation: TH7684.C6
- Chutes for letters, parcels, cash, etc.: TJ1398
- Cider
  - Beverages: TP563+
  - Cooking: TX726.2
- Cigarettes
  - Tobacco industry: TS2260
- Cigars
  - Tobacco industry: TS2260
- Cinder
  - Sidewalks: TE283
- Cinematograph: TR880
- Cinematography: TR845+
- Cinemitrailluse
  - Aeronautical instrument: TL589.2.C5
- Cineradiography
  - Cinematography: TR896.8
- Cinnabar
  - Ore deposits and mining: TN462.C5
- Cinnamon
  - Cooking: TX819.C53
- Cipher codes
  - Aircraft: TL694.C6
- Circuit breakers: TK2842
  - Dynamolectric machinery: TK2841+
- Circuits
  - Computer engineering: TK7888.4
- Circuits manuals
  - Electronics: TK8300+
- Circularly polarized antennas: TK7871.67.S65
- Circulation piping
  - Plumbing: TH6568
- Ciro-flex cameras
  - Photography: TR263.C5
- Cisco: TK5105.8.C57
- Cisco IronPort (Electronic mail system): TK5105.74.C57
- Citizen participation
  - Environmental protection: TD171.7
  - Hazardous substance disposal: TD1050.C57
- Citizens band radio: TK6570.C5
- Citric acid
  - Biotechnology: TP248.65.C58



## INDEX

- Citric acid
  - Chemical technology: TP248.C6
- Citronella oil
  - Organic chemical industries: TP959.C5
- Citrus fruits
  - Cooking: TX813.C5
  - Food values: TX558.C5
  - Preservation and storage: TX612.C57
- Citrus oils
  - Organic chemical industries: TP959.C54
- Citrus processing plants
  - Waste control: TD899.C55, TD899.C57
- Citrus products
  - Food processing and manufacture: TP441.C5
- City planning
  - Municipal engineering: TD160+
- City planning, Climatic factors in: TD168.5
- City surveying
  - City planning: TD167
- Civil 3D, AutoCAD
  - Computer-aided engineering: TA345.5.A98
- Civil aviation: TL552
- Civil engineering: TA1+
  - Environmental effects: TD195.C54
- Civilian use of outer space: TL794.7
- Cladding
  - Exterior walls: TH2238
- Claims of inventors
  - Telegraph: TK5117+
  - Telephone: TK6017+
- Clams
  - Cooking: TX754.C53
- Clapboard walls
  - Building design and construction: TH2244
- Clarification
  - Wine: TP548.5.C53
- Claris Home page
  - Web authoring software: TK5105.8885.C55
- Classification
  - Hazardous substances: TD1050.C65
  - Motion picture film: TR889
- Classifiers
  - Ore dressing and milling: TN515
- Clay
  - Ceramic technology: TP811
  - Mining engineering: TN941+
  - Prospecting: TN271.C53
  - Sewer design and construction: TD682
- Clay analysis
  - Ceramic technology: TP811
- Clay industries
  - Chemical technology: TP785+
- Clay minerals
  - Engineering materials: TA455.C55
- Clay modeling
  - Decorative crafts: TT916
- Clay ovens
  - Cooking: TX657.O57
- Clay pipe
  - Engineering materials: TA447
  - Sewer design and construction: TD684
- Clay pot cooking: TX825.5
- Clean rooms
  - Dust removal: TH7694
- Cleaning
  - Brick: TH5520
  - Hats: TS2193
  - Masonry: TH5520
  - Metal finishing: TS654
  - Motor vehicle operation: TL152.15
  - Sewers: TD719
  - Stone: TH5520
  - Textiles: TP895
  - The house: TX324
- Cleaning compounds
  - Chemical technology: TP990+
  - Fire prevention and extinction: TH9446.C65
- Cleaning industry, Waste from
  - Environmental technology: TD899.C58

## INDEX

Cleaning plants  
  Fire prevention and extinction:  
    TH9445.C6  
Cleanout ferrules  
  House drainage: TH6646  
Cleanouts  
  House drainage: TH6635  
Cleveland motorcycle: TL448.C54  
Climate change mitigation  
  Environmental protection: TD171.75  
Climatic factors  
  City planning: TD168.5  
  Heating and ventilating systems:  
    TH7015  
Clinker brick  
  Brickmaking: TP832.C5  
Clinker concrete  
  Cement manufacture: TP884.C5  
Clinkers  
  Masonry materials: TA441  
Clinoptilolite  
  Mining engineering: TN948.C6  
Clocks  
  Manufactures: TS540+  
Cloisonné  
  Handicrafts: TT382.6  
Close-up photography: TR683+  
Closed-circuit television: TK6680  
Closed circular ring problems  
  Engineering mathematics:  
    TA347.C54  
Closets  
  Building design and construction:  
    TH3000.C55  
Clothing  
  Home economics: TX340  
Clothing factories: TT498  
  Building construction: TH4522  
  Electric power: TK4035.C4  
Clothing for boys: TT630  
Clothing for girls: TT562  
Clothing for people with disabilities:  
  TT648  
Clothing for pilots: TL697.C6  
Clothing manufacture: TT490+

Clouds  
  Meteorological aeronautics:  
    TL557.C6  
  Meteorological photography: TR733  
Clubhouses  
  Building construction: TH4800  
  Electric power: TK4035.C47  
Clubs: TX901+  
Clutches  
  Mechanical engineering: TJ1074  
  Motor vehicles: TL261  
Cnidoscopus oil  
  Chemical technology: TP684.C6  
Coagulants  
  Chemical technology: TP159.C55  
Coagulation  
  Water purification: TD455  
Coagulation, Sedimentation with  
  Sewage purification: TD751  
Coal  
  Environmental pollutants: TD196.C63  
  Fuel: TP325+  
  Gas manufacture: TP751.7  
  Mining engineering: TN799.9+  
  Prospecting: TN271.C58  
Coal briquets  
  Fuel: TP327  
Coal cars  
  Railway equipment: TF479  
Coal computations: TF555  
Coal-fired power plants  
  Water pollution: TD428.C58  
Coal gasification: TP759  
Coal-handling machinery  
  Collieries: TN815  
  Conveying machinery: TJ1405  
Coal-handling plants  
  Building construction: TH4471  
Coal heating of buildings: TH7400  
Coal liquefaction  
  Fuel: TP352  
  Waste control: TD899.C585  
Coal miners  
  Photographic portraits: TR681.C62  
Coal mines and mining: TN802+  
  Environmental effects: TD195.C58  
  Water pollution: TD428.C6

## INDEX

- Coal mining machinery: TN813+
- Coal preparation: TN816.A1+
- Coal preparation plants
  - Dust removal: TH7697.C58
  - Electric lighting: TK4399.C6
  - Waste control: TD899.C588
- Coal products
  - Organic chemical industries: TP953
- Coal screening: TN816.A1+
- Coal slurry pipelines: TJ898.5
- Coal storage: TN817
- Coal stove heating
  - Convective heating: TH7443+
- Coal stoves
  - Cooking: TX657.S4
- Coal tar
  - Organic chemical industries: TP953
- Coal-tar colors
  - Textile dyeing: TP914
- Coal washing: TN816.A1+
- Coal weathering: TN817
- Coalbed methane: TN844+
- Coaling plants
  - Railway structures: TF294
- Coaling stations
  - Air pollution: TD888.C58
- Coalsheds
  - Railway structures: TF294
- Coast protective works
  - Harbors: TC203+
  - Hydraulic engineering: TC330+
- Coastal engineering: TC203+
- Coaster cars: TL482
- Coating of fabrics
  - Textile industries: TS1512
- Coating processes
  - Chemical engineering: TP156.C57
- Coatings
  - Engineering materials: TA418.9.C57
  - Packaging materials: TS198.3.C6
  - Paper manufacture: TS1118.F5
  - Space vehicles: TL954.P35
- Coats
  - Men's tailoring: TT595
  - Women's tailoring: TT530
- Cob
  - Brickmaking: TP832.C6
- Cobalt
  - Chemical technology: TP245.C7
  - Electroplating: TS692.C57
  - Engineering materials: TA480.C6
  - Metallography: TN693.C8
  - Metallurgy: TN799.C6
  - Ore deposits and mining: TN490.C6
  - Soil pollutants: TD879.C63
- Cobalt mines and mining
  - Environmental effects: TD195.C59
- Cobblestone
  - Pavements: TE259
- Coca flour
  - Food values: TX558.C54
- Cochineal
  - Textile dyes: TP925.C63
- Cockpit
  - Airplanes: TL681.C6
- Cocoa
  - Chemical technology: TP640
  - Cooking: TX817.C5
  - Nutrition: TX415
- Cocoa butter
  - Chemical technology: TP684.C2
- Coconut fiber
  - Textile fiber: TS1544.C6
- Coconut flour
  - Cooking: TX814.5.C63
- Coconut oil
  - Chemical technology: TP684.C7
  - Fuel: TP359.C63
- Coconuts
  - Cooking: TX814.2.C63
  - Food processing and manufacture: TP439.5.C6
- Code division multiple access: TK5103.452
- Coded centralized traffic control
  - Railway operation: TF639
- Codfish
  - Cooking: TX748.C63
- Coding theory
  - Electrical engineering: TK5102.92+
- Coffee
  - Adulteration: TX583
  - Chemical technology: TP645
  - Cooking: TX817.C6

## INDEX

- Coffee
  - Food values: TX560.C63
  - Nonalcoholic beverages: TP638+
  - Nutrition: TX415
- Coffee (as a flavor)
  - Cooking: TX819.C6
- Coffee making paraphernalia
  - Cooking: TX657.C67
- Coffee processing plants
  - Air pollution: TD888.C6
- Cofferdams
  - Hydraulic engineering: TC198
- Coffins
  - Woodworking: TT197.5.C62
- Cognitive radio networks: TK5103.4815
- Coherent radar: TK6592.C6
- Cohemers
  - Radiotelegraph: TK5863
- Coil boilers
  - Hot water heating: TH7530+
- Coils
  - Electronics: TK7872.C56
  - Radiators: TH7482+
  - Radio: TK6565.C6
- Coin operated machines
  - Mechanical engineering: TJ1557+
- Coir
  - Textile fiber: TS1747.C6
- Coke
  - Fuel: TP336
  - Petroleum products: TP692.4.C6
- Coke industry
  - Electric power: TK4035.C6
- Cold air supply
  - Warm-air heating: TH7608
- Cold cathode tubes: TK7871.84.C6
- Cold dishes
  - Cooking: TX830
- Cold plates
  - Electronics: TK7872.H4
- Cold resistant materials: TA418.28
- Cold storage
  - Food preservation: TP372.2
- Cold-storage foods
  - Cooking: TX826
- Cold water supply
  - Building construction: TH6541+
- Cold weather conditions
  - Airports: TL725.3.C6
  - Building construction: TH153
  - Cement and concrete construction: TA682.43
  - Mining: TN291.26
- Cold weather operation
  - Airplanes: TL711.C64
  - Railway operation: TF506
- Cold weather photography: TR792
- Cold working of metals
  - Manufactures: TS207+
- Collage
  - Crafts: TT910
- Collar bearings
  - Machinery: TJ1069
- Collectibles
  - Cooking: TX642
- Collecting
  - Firearms: TS532.4
- Collecting reservoirs
  - Sewers: TD722
- Collection of municipal refuse
  - Environmental technology: TD785+
- Collectors
  - Firearms: TS532.4
- Collectors and collecting
  - Cooking: TX642
  - Model airplanes: TL772
  - Model motor vehicles: TL237.2
  - Motorcycles: TL444.2
  - Radio receiving apparatus: TK6563.2
  - Tractors: TL233.25
- College buildings
  - Heating and ventilation: TH7392.S35
- College students
  - Nutrition: TX361.C6
- Colleges
  - Energy conservation: TJ163.5.U5
- Collision avoidance systems
  - Motor vehicles: TL272.52
- Collision prevention
  - Aeronautical navigation: TL696.C6
- Collodion process
  - Photographic process: TR390
- Colloidal concrete
  - Cementing substance: TA443.C64

## INDEX

Colloidal fuel: TP360  
Colloids  
  Food constituents: TP453.C65  
Collotype processes  
  Photography: TR930+  
Color  
  Wine and winemaking: TP548.5.C64  
Color as a safety measure  
  Industrial safety: T55.3.C6  
Color blindness  
  Railway operation: TF620  
Color cinematography: TR853  
Color combinations  
  Textile dyeing: TP892  
Color of food  
  Food processing: TP370.9.C64  
Color photography  
  Photographic processing: TR510+  
Color processes  
  Photography: TR977  
Color removal  
  Sewage disposal: TD758.5.C65  
  Water treatment and conditioning:  
    TD468  
Color television: TK6670  
Colorants  
  Food additives: TP456.C65  
Colored glass  
  Glassmaking: TP861.5  
Coloring  
  Metal finishing: TS710, TT382.2  
  Paper manufacture: TS1118.D9  
Coloring matter  
  Effect on food: TX571.C7  
Coloring of bone  
  Painting: TT370  
Coloring of prints  
  Photographic processing: TR485  
Coloring of stone  
  Painting: TT370  
Colors  
  Ceramic decoration: TP823  
  Dyeing: TP907  
Columbian Exposition, 1893: T500  
Columns  
  Building design and construction:  
    TH2252+

Columns  
  Reinforced concrete construction:  
    TA683.5.C7  
  Structural engineering: TA660.C6  
Columns, Metal  
  Engineering and construction:  
    TA492.C7  
Comb industry  
  Manufactures: TS2301.C75  
Combination warm-air heating systems:  
  TH7635  
Combinatorial analysis  
  Engineering mathematics: TA347.C6  
Combined purpose desalination plants:  
  TD479.5  
Combined sewerage system: TD662  
Combines  
  Agricultural machinery: TJ1486  
Combing  
  Cotton manufactures: TS1578  
  Textile manufactures: TS1485+  
  Woolen manufactures: TS1628  
Combing machines: TS1487  
Combustible gas detectors  
  Fire prevention and extinction:  
    TH9271  
Combustion  
  Diesel engines: TJ797  
  Furnaces: TJ324.7  
  Rockets: TL784.C6  
Combustion chambers  
  Jet engines: TL709.5.C55  
  Machinery: TJ254.7  
Combustion engineering: TJ254.5+  
Combustion gases  
  Air pollutants: TD885.5.C66  
Combustion, Spontaneous  
  Fire prevention: TH9198  
Comfort women  
  Photographic portraits: TR681.P73  
Command  
  Fire extinction: TH9310.8  
Command control equipment  
  Astronautics: TL4040+  
Command control systems  
  Space vehicles: TL3280

## INDEX

Commercial buildings  
  Air conditioning: TH7688.C64  
  Artificial lighting: TH7975.C65  
  Construction: TH4311+  
  Electric wiring: TK3284  
  Heating and ventilation: TH7392.C65  
Commercial cinematography  
  Photography: TR894.3+  
Commercial correspondence  
  Hospitality industry: TX911.3.C6  
Commercial garment cleaning and  
  dyeing: TP932+  
Commercial laundry work: TT990  
Commercial photography: TR690+  
Communal kitchens  
  Food service: TX946  
Communication equipment  
  Aircraft: TL692+  
Communication in chemical  
  engineering: TP186.7+  
Communication in materials  
  engineering: TA404.25  
Communication in mechanical  
  engineering: TJ160+  
Communication methods  
  Aircraft: TL692+  
  Space vehicles: TL3025+  
Communication, Near field  
  Radio: TK6570.N43  
Communication of aeronautics  
  information: TL563.5+  
Communication of automotive  
  information: TL10+  
Communication of building information:  
  TH215+  
Communication of cooking information:  
  TX643+  
Communication of handicraft  
  information: TT10+  
Communication of metallurgical  
  information: TN610+  
Communication of photography  
  information: TR10+  
Communication of technical information:  
  T10.5+  
Communication of water supply  
  information: TD209+

Communication systems  
  Airports: TL725.3.C63  
  Fire prevention and extinction:  
    TH9280  
  Highway engineering: TE228.3+  
Communications  
  High speed ground transportation:  
    TF1520  
Communications, Machine-to-machine:  
  TK5105.67  
Communications software  
  Electrical engineering: TK5105.9  
Communicator (Netscape):  
  TK5105.883.N49  
Community antenna television: TK6675  
Community server  
  Web authoring software:  
    TK5105.8885.C58  
Community water tower systems  
  Fire prevention and extinction:  
    TH9333  
Commutation and brush resistance  
  Dynamoelectric machinery: TK2281  
Commutation pole generators  
  Dynamoelectric machinery: TK2665  
Commutators and collectors  
  Generators: TK2481  
Compact disc players  
  Electronics: TK7881.75  
Compact discs  
  Electronics: TK7882.C56  
Compacting  
  Chemical engineering: TP156.C59  
Compagnie nouvelle du canal de  
  Panama: TC779+  
Compagnie universelle du canal  
  interocéanique de Panama: TC778+  
Compass  
  Surveying instruments: TA563  
Compass (Gyroscope)  
  Aeronautical instrument: TL589.2.C58  
Compass (Magnetic)  
  Aeronautical instrument: TL589.2.C6  
Compass surveying: TA595+  
Compensating powder  
  Explosives: TP290.C7

## INDEX

- Competitions
  - Cooking: TX648
- Complex analysis
  - Engineering mathematics: TA347.C64
- Compliant platforms
  - Ocean engineering: TC1700+
- Composer (Netscape)
  - Web authoring software: TK5105.8885.N49
- Composite materials
  - Aeronautics: TL699.C57
  - Engineering materials: TA418.9.C6
  - Motor vehicle construction materials: TL240.5.C65
  - Structural engineering: TA664
  - Testing: TA417.7.C6
- Composite photography: TR685
- Composite systems (A.C. and D.C.)
  - Electrical engineering: TK3171
- Composite systems (D.C. and A.C.)
  - Electric lighting: TK4308
- Composition
  - Photography: TR179
- Composition of food: TX501+
- Composition roofing
  - Building construction: TH2450+
- Composting
  - Municipal refuse: TD796.5
- Compound semiconductors
  - Electronics: TK7871.99.C65
- Compounding
  - Distilling: TP612
- Compressed-air automobiles: TL225
- Compressed air engines: TJ766+
- Compressed air machinery: TJ981+
- Compressed air railways: TF838
- Compressed gas
  - Chemical technology: TP243
  - Gas industry: TP761.C65
- Compressed natural gas automobiles: TL228
- Compressed wood: TS868
- Compressed yeast
  - Leavening agents and baking aids: TP433
- Compressibility
  - Aerodynamics: TL574.C4
- Compressibility burbles
  - Aerodynamics: TL574.T8
- Compression
  - Testing of materials: TA417.7.C65
- Compression, Image: TA1638
- Compressor stations
  - Dust removal: TH7697.C6
- Compressors
  - Aeronautics: TL697.C65
  - Chemical technology: TP159.C57
  - Electric driving: TK4059.C64
  - Jet engines: TL709.5.C56
  - Locomotives: TJ669.C6
  - Turbines: TJ267.5.C5+
- Computation of areas
  - Surveying: TA613+
- Computational fluid dynamics
  - Applied fluid mechanics: TA357.5.D37
- Computational methods
  - Structural engineering: TA640+
- Computational photography
  - Digital photography: TR267.3
- Computer-aided engineering
  - Engineering mathematics: TA345+
- Computer animation
  - Cinematography: TR897.7+
- Computer art
  - Decorative crafts: TT869.5
- Computer-assisted drafting: T385
- Computer-assisted instruction
  - Technical education: T65.5.C65
- Computer components
  - Manufacturing: TK7886
- Computer coordination of multiple radar systems: TK6582
- Computer engineering: TK7885+
- Computer engineering as a profession: TK7885.53+
- Computer flight games
  - Airplanes: TL712.8
- Computer furniture
  - Woodworking: TT197.5.C65
- Computer graphics: T385
- Computer hardware: TK7885+

## INDEX

- Computer installations
  - Fire prevention and extinction: TH9445.C65
- Computer integrated manufacturing systems: TS155.63
- Computer manufacturing plants: TK7886
- Computer network architectures
  - Electrical engineering: TK5105.52+
- Computer network management: TK5105.548+
- Computer network protocols: TK5105.55+
- Computer network resources: TA158.7
  - Chemical engineering: TP186.8
  - Handicrafts: TT11
  - Motor vehicles: TL11
  - Photography: TR11
- Computer network security: TK5105.59
- Computer networks
  - Electrical engineering: TK5105.5+
- Computer output microfilm devices: TK7887.8.C6
- Computer printers
  - Computer engineering: TK7887.7
- Computer programs
  - Orbital transfer: TL1078
  - Space trajectories: TL1078
- Computer simulation
  - Biotechnology: TP248.25.A96
  - Civil engineering: TA404.23
  - Mechanical engineering: TJ211.47
  - Telecommunication: TK5102.83
- Computer sound processing
  - Internet: TK5105.8863
- Computer technicians
  - Electronics: TK7885.54
- Computer vision: TA1634
- Computers
  - Amateurs' manuals: TK9969
  - Fire prevention and extinction: TH9445.C65
  - Manufacturing: TK7886
  - Motor vehicles: TL272.53
- COMSOL Multiphysics
  - Computer-aided engineering: TA345.5.C66
- Concentrating
  - Ore dressing and milling: TN520+
- Concierge service
  - Hotels, clubs, restaurants, etc.: TX911.3.C63
- Concierges
  - Hotels, clubs, restaurants, etc.: TX911.3.C63
- Concrete
  - Fire-resistive building construction: TH1087
  - Masonry construction: TA680+
  - Masonry materials: TA439+
  - Sewer design and construction: TD682
  - Sidewalks: TE291
- Concrete and stone
  - Bridge engineering: TG367
- Concrete and timber
  - Masonry materials: TA442
- Concrete-block building construction: TH1491
- Concrete blocks
  - Cement manufacture: TP885.C7
  - Housing material: TH4818.C6
- Concrete bridges: TG335+
- Concrete building construction: TH1461+
- Concrete construction maintenance and repair: TA682.446
- Concrete construction, Reinforced
  - Structural engineering: TA682.92+
- Concrete corrosion: TA440
- Concrete dams: TC547
- Concrete domes
  - Building design and construction: TH2170.5
- Concrete mine supports
  - Mining: TN289.5
- Concrete (Nonstructural)
  - Floors and flooring: TH2529.C6
- Concrete piling
  - Foundations: TA787
- Concrete pipes
  - Engineering materials: TA447
- Concrete roads and pavements: TE278+



## INDEX

- Concrete roofing
  - Building construction: TH2446
- Concrete slabs
  - Cement manufacture: TP885.C7
- Concrete walls
  - Building design and construction: TH2245
- Condensation
  - Chemical engineering: TP156.C6
- Condensation trails
  - Aeronautical meteorology: TL557.C7
- Condense-waste systems
  - Low-pressure steam heating: TH7575
- Condensers
  - Dynamolectric machinery: TK2805
  - Electronics: TK7872.C65
  - Radio: TK6565.C65
- Condiments
  - Cooking: TX819.A1+
  - Flavoring aids: TP420
  - Nutrition: TX406+
- Conduct
  - Household employees: TX333
- Conductivity, Thermal
  - Thermal properties: TA418.54
- Conductors
  - Building construction: TH2493
  - Electric power: TK3301+
- Conduit material
  - Telegraph: TK5467
- Conduits
  - Hydrodynamics: TC174
  - Water supply: TD398
- Conex containers
  - Packaging: TS198.6.C6
- Confectioners' supplies: TX778
- Confectionery
  - Cooking: TX761+
  - Food values: TX560.C65
- Congelation of beverages: TP658
- Conglomerate
  - Mining engineering: TN948.C72
- Connecting rods
  - Aircraft engines: TL702.C5
  - Locomotives: TJ662
- Connections
  - House drainage: TH6613
- Connections
  - Telegraph: TK5401+
  - Telephone: TK6301+
- Connections piping
  - Plumbing: TH6568
- Connectors
  - Electric power transmission: TK3521
- Conservation
  - Airplanes: TL671.95
  - Motorcycles: TL444.2
  - Photographs: TR465
  - Tractors: TL233.25
- Conservation, Water: TD388+
- Consolidation
  - Soils: TA710+
- Constant-current generators
  - Dynamolectric machinery: TK2665
- Constant-potential generators
  - Dynamolectric machinery: TK2665
- Constructed wetlands
  - Sewage treatment: TD756.5
- Construction
  - Airships: TL660
  - Balloons: TL622
  - Boilermaking: TJ290+
  - Electric railways: TF863+
  - High speed ground transportation: TF1470+
  - Lighthouses: TC375+
  - Locomotives: TJ635
  - Petroleum pipelines: TN879.53
  - Radioactive waste sites: TD898.155.D47
  - Sewers: TD678+
  - Telegraph: TK5401+
  - Telephone: TK6301+
  - Warm-air heating: TH7609
- Construction details
  - Gasoline automobiles: TL210+
  - Highway engineering: TE210+
- Construction equipment
  - Building construction: TH900+
  - Electric driving: TK4059.C65
  - Internal combustion engines: TJ793.2
- Construction industry
  - Air pollution: TD888.C63
  - Energy conservation: TJ163.5.C65

## INDEX

- Construction industry
  - Environmental effects: TD195.C595
  - Noise control: TD893.6.C6
  - Waste control
    - Environmental technology: TD899.C5885
  - Water pollution: TD428.C64
- Construction methods
  - Cement and concrete construction: TA682.4+
  - Reinforced concrete construction: TA683.4+
- Construction on contaminated sites: TH1095.5
- Construction, Precast
  - Reinforced concrete construction: TA683.7
- Construction, Prestressed concrete: TA683.9+
- Consulting engineering: TA215.22+
- Consumer education
  - Household administration: TX335+
- Consumer products, Safety of
  - Product engineering: TS175
- Consumers' guides
  - Gas lighting: TH7915
- Contact mechanics
  - Applied dynamics: TA353
- Contact prints
  - Photography: TR312
- Contactors
  - Electronics: TK7872.C67
- Contacts
  - Electronics: TK7872.C68
- Containerization
  - Transportation engineering: TA1215
- Containers
  - Packaging: TS197.5
- Containment
  - Nuclear reactors: TK9211
- Contaminated processed metals
  - Environmental pollutants: TD196.M4
- Contaminated sites, Construction on: TH1095.5
- Contamination
  - Electronics: TK7870.27
  - Space vehicles: TL946
- Contax cameras
  - Photography: TR263.C6
- Continuous beams
  - Structural engineering: TA660.B43
- Continuous frames
  - Structural engineering: TA660.F72
- Continuous girder bridges: TG413+
- Continuous girders: TG355
- Continuous ingot casting
  - Steel metallurgy: TN750
- Continuous rails
  - Railway construction: TF262
- Continuous systems
  - Structural analysis: TA651
- Continuous wave radar: TK6592.C65
- Contracting: TA201+
- Contractor, Hiring a
  - House construction: TH4815.4
- Contractors
  - Building construction: TH12+
- Contractors' operations and equipment: TA201+
- Contracts
  - Engineering economy: TA180+
- Control
  - Aerodynamics: TL574.C6
  - Biotechnology: TP248.25.M65
  - Environmental pollution: TD172+
  - Fire extinction: TH9310.8
  - Petroleum pipelines: TN879.52
- Control apparatus
  - Airplanes: TL678+
- Control compartment
  - Airships: TL662.C6
- Control engineering systems
  - Mechanical engineering: TJ212+
- Control of Internet access: TK5105.8855
- Control of production systems
  - Production management: TS155.8+
- Control of quantum systems: TK7874.885
- Control rooms for nuclear facilities: TK9220
- Control stick
  - Airplanes: TL678+

## INDEX

- Control surfaces
  - Airplanes: TL676+
- Control systems
  - Aircraft engines: TL702.A37
  - Gasoline automobiles: TL214.C64
  - Jet engines: TL709.5.C57
  - Mechanical engineering: TJ211.35, TJ214+
- Control tower display systems
  - Aeronautical navigation: TL696.C75
- Control towers
  - Airports: TL725.3.C64
- Controllable pitch aircraft propellers:
  - TL707.P5
- Controlled release technology
  - Chemical engineering: TP156.C64
- Controllers
  - Dynamolectric machinery: TK2851
  - Electric railways: TF930
- Controls
  - Rockets: TL784.C63
- Convection
  - Applied fluid mechanics:
    - TA357.5.C65
- Convection oven cooking: TX840.C65
- Convective heating
  - Building construction: TH7435+
- Convenience foods: TP451.C6
  - Nutrition: TX370
- Converters
  - Dynamolectric machinery: TK2796
- Convertiplanes: TL685
- Convex programming
  - Industrial engineering: T57.815
- Conveying machinery
  - Electric driving: TK4059.C67
  - Fire prevention and extinction:
    - TH9445.C67
  - Mechanical engineering: TJ1350+
- Conveying of gases, liquids and solids by means of steam, air, or water:
  - TJ898+
- Conveyors for assembly line production
  - Conveying machinery: TJ1390+
- Conveyors for letters, parcels, cash, etc.: TJ1398
- Cookbooks: TX703+
- Cookers
  - Cooking: TX657.C7
- Cookie cutters
  - Cooking: TX657.C72
- Cookie molds
  - Cooking: TX657.C72
- Cookies
  - Cooking: TX772
- Cooking
  - Home economics: TX641.2+
  - Cooking en casserole: TX693
  - Cooking for large numbers: TX820
  - Cooking information, Communication of:
    - TX643+
  - Cooking processes: TX681+
  - Cooking using alcoholic beverages:
    - TX726+
- Cooks
  - Cooking
    - Biography: TX649.A1+
    - Photographic portraits: TR681.C66
- Cookware
  - Cooking: TX657.C74+
- Cooling
  - Buildings: TH7687+
  - Chemical technology: TP363
  - Diesel engines: TJ799
  - Electronic apparatus and materials:
    - TK7870.25
  - Internal combustion engines: TJ789
  - Nuclear reactors: TK9212
  - Rockets: TL784.C65
- Cooling systems
  - Aircraft engines: TL702.R3
  - Gasoline automobiles: TL214.R3
  - Jet engines: TL709.5.C6
- Cooling towers
  - Chemical technology: TP159.C6
  - Environmental effects: TD195.C6
  - Steam engines: TJ563
- Cooperage
  - Manufactures: TS890
- Coordinate measuring machines:
  - TA165.5
- Copper
  - Aeronautics: TL699.C6
  - Assaying: TN580.C64

## INDEX

- Copper
  - Chemical technology: TP245.C8
  - Electrical engineering: TK454.4.C6
  - Electroplating: TS692.C6
  - Engineering materials: TA480.C7
  - Metallography: TN693.C9
  - Metallurgy: TN780
  - Ore deposits and mining: TN440+
  - Ore dressing and milling: TN538.C66
  - Powder metallurgy: TN697.C65
  - Prospecting: TN271.C6
  - Waste disposal: TD812.5.C66
  - Water pollutants: TD427.C66
- Copper alloys: TL699.C6
- Copper conductors
  - Electric power: TK3311.C6
- Copper founding
  - Manufactures: TS620+
- Copper industry
  - Air pollution: TD888.C64
  - Waste control: TD899.C59
- Copper mines and mining
  - Water pollution: TD428.C66
- Copper roofing
  - Building construction: TH2458
- Copper steel
  - Engineering and construction: TA479.C7
- Copper sulfate
  - Algae control: TD465
- Copper trade
  - Air pollution: TD888.C64
- Coppersmithing
  - Manufactures: TS620+
- Copperwork
  - Handicrafts: TT250
- Coprolites
  - Mining engineering: TN948.C73
- Copybooks
  - Stationery: TS1251
- Copying
  - Photography: TR470
- Cordage
  - Textile fiber: TS1784+
- Cordials
  - Distilling: TP611
- Cordierite
  - Mining engineering: TN948.C75
- Cordite
  - Explosives: TP290.C8
- Cords
  - Silk manufactures: TS1687
- Coremaking
  - Metal manufactures: TS243+
- Coriander
  - Cooking: TX819.C65
- Cork
  - Engineering materials: TA455.C6
- Cork craft
  - Woodworking: TT190.5
- Cork industry
  - Manufactures: TS908
- Corkscrews
  - Cooking: TX657.C76
- Corliss steam-engine: TJ485.C5
- Corliss valve gears: TJ551.C8
- Corn
  - Cooking: TX809.M2
  - Food processing and manufacture: TP444.C67
  - Food values: TX558.C57
  - Milling: TS2159.C2
  - Sugars and syrups: TP405
- Corn bread
  - Cooking: TX770.C64
- Corn oil
  - Chemical technology: TP684.C8
- Corn products
  - Food processing and manufacture: TP435.C67
- Corncobs
  - Utilization of waste: TP996.C6
- Corned beef
  - Meat-packing industries: TS1974.C67
- Cornhusk craft
  - Decorative crafts: TT878
- Cornices (Exterior)
  - Building construction: TH2482+
- Cornices (Interior)
  - Building construction: TH2553
- Cornish steam boiler
  - Mechanical engineering: TJ310

## INDEX

- Cornmeal
  - Food values: TX558.C57
- Cornstalks
  - Paper manufacture: TS1109
  - Utilization of waste: TP996.C7
- Cornstarch: TP415+
- Correct dress
  - Men's tailoring: TT618
- Correctional institutions
  - Environmental effects: TD195.P74
  - Fire prevention and extinction: TH9445.C68
- Correspondence, Technical: T11.3
- Corrosion
  - Electronics: TK7870.28
  - Gas industry: TP751.1
  - Iron and steel: TA467
  - Metals: TA462
  - Ocean engineering: TC1670
  - Packaging protection: TS198.8.C6
  - Petroleum refining: TP690.8
  - Properties of materials: TA418.74+
  - Reinforcing bars: TA445.5
  - Sewers: TD691
  - Underwater structures: TC200
- Corrosion-resistant alloys
  - Engineering and construction: TA486
- Corrosion-resistant materials
  - Engineering materials: TA418.75
- Corrosive wastes
  - Waste disposal: TD898.8.C67
- Corrugated paper
  - Decorative crafts: TT870+
- Corrugated paperboard: TS1138
- Corsets
  - Clothing manufacture: TT677
- Corsican cooking: TX719.2.C67
- Corundum
  - Engineering materials: TA455.C65
  - Industrial electrochemistry: TP261.C67
  - Mining engineering: TN936
- Corvette automobile: TL215.C6
- Cosmetic delivery systems: TP983.3
- Cosmetics
  - Organic chemical technology: TP983+
- Cosmetology: TT950+
- Cost control
  - Hazardous substances and their disposal: TD1050.C67
  - Hotels, clubs, restaurants, etc.: TX911.3.C65
  - Production management: TS165+
- Cost effectiveness
  - Building construction: TH438.15
  - Engineering economy: TA177.7
- Cost measurements
  - Masonry construction: TH5330
- Cost of operation
  - Electric railways: TF962
  - Motor vehicles: TL151.5+
- Cost of production
  - Machine shops: TJ1146
- Costs
  - Cement and concrete construction: TA682.26
  - Engineering economy: TA183
  - Heating of buildings: TH7335+
  - Municipal refuse and solid wastes: TD793.7
  - Packaging: TS196.2
  - Plumbing: TH6234+
  - Railroad engineering: TF193
  - Saline water conversion: TD479.3
  - Sewage collection and disposal systems: TD653
- Costume design: TT507
- Cotton
  - Fire prevention and extinction: TH9446.C7
  - Textile fiber: TS1542
  - Utilization of waste: TP996.C75
- Cotton dyeing: TP930+
- Cotton fabrics
  - Cotton manufactures: TS1582
  - Fire prevention and extinction: TH9446.C7
- Cotton gins: TS1585
  - Air pollution: TD888.C65
  - Fire prevention and extinction: TH9445.C7
- Cotton industry
  - Waste control: TD899.C6

## INDEX

- Cotton machinery
  - Cotton manufactures: TS1583
- Cotton manufactures: TS1550+
- Cotton waste products
  - Cotton manufactures: TS1587
- Cottonseed oil
  - Chemical technology: TP681.A1+
- Cottonseed products
  - Food values: TX560.C7
- Couching
  - Embroidery: TT778.C63
- Coulometers: TK331
- Counted thread embroidery:
  - TT778.C65
- Counterflows
  - Applied fluid mechanics:
    - TA357.5.C68
- Counters
  - Control engineering: TJ223.C6
  - Electronics: TK7872.C7
- Countertops
  - Woodworking: TT197.5.C68
- Country homes
  - Construction: TH4850
- Country roads
  - Highway engineering: TE229+
- Coupled problems
  - Engineering mathematics:
    - TA347.C68
- Couplers
  - Railroad cars: TF410
- Couples
  - Photographic portraits: TR681.C68
- Course computers
  - Aeronautical navigation: TL696.C8
- Course-line computers
  - Aeronautical navigation: TL696.C8
- Coverlets
  - Handicrafts: TT835
- Cowling
  - Airplanes: TL681.C7
- Cowlings
  - Aircraft engines: TL702.C6
- Cowpeas
  - Cooking: TX803.C68
  - Food values: TX558.C6
- Cows
  - Nature photography: TR729.C69
- Crabs
  - Cooking: TX754.C83
- Crackers
  - Cooking: TX770.C72
- Cracking process
  - Petroleum refining: TP690.4
- Crackle
  - Painting: TT378
- Craft materials and supplies
  - Handicrafts: TT153.7
- Cranberries
  - Cooking: TX813.C7
- Cranes
  - Hoisting machinery: TJ1363+
  - Hydraulic engineering: TC370
  - Railway structures: TF290
- Crankpin
  - Steam engines: TJ537
- Cranks
  - Locomotives: TJ669.C7
  - Mechanical engineering: TJ182+
  - Miscellaneous motors and engines:
    - TJ762.C73
  - Steam engines: TJ537
- Crankshafts
  - Aircraft engines: TL702.C7
  - Gasoline automobiles: TL214.C73
  - Locomotives: TJ669.C7
  - Miscellaneous motors and engines:
    - TJ762.C73
- Crappie
  - Cooking: TX748.C73
- Crashworthiness
  - Motor vehicles: TL242
- Crates
  - Packaging: TS198.6.C7
- Crawl spaces
  - Building design and construction:
    - TH3000.C73
- Crayfish
  - Cooking: TX754.C84
- Cream of tartar
  - Food processing: TP432
- Creameries
  - Heating and ventilation: TH7392.C7

## INDEX

- Crease-resisting process
  - Textile industries: TS1513
- Creep behavior
  - Plastic properties and tests: TA418.22
- Creosote
  - Preservation of wood: TA424.6.C7
- Crepe
  - Silk manufactures: TS1677
- Crepes
  - Cooking: TX770.P34
- Cresols
  - Chemical technology: TP248.C67
- Cresylic acid
  - Chemical technology: TP248.C7
- Crewelwork
  - Embroidery: TT778.C7
- Crex products
  - Wood technology: TS915
- Cribs
  - Plant service facilities: TS189.3
  - Wood manufactures: TS886.5.C74
- Cribwork
  - Hydraulic engineering: TC197
- Crimping
  - Textile industries: TS1487.7
- Critical path analysis
  - Management of engineering works: TA194
  - Production control: TS158
- Crocheting
  - Decorative needlework: TT819+
- Crocheting machinery
  - Clothing manufacture: TT685
- Croissants
  - Cooking: TX770.C74
- Crop residues
  - Rural engineering: TD930.3
- Cross-connections
  - Water supply to buildings: TH6523
- Cross-country flying
  - Airplanes: TL711.L7
- Cross-layer designs
  - Computer networks: TK5105.66
- Cross-media pollution
  - Measurement of pollution: TD193.3
- Cross method: TA650+
- Cross-stitch
  - Embroidery: TT778.C76
- Crossarms
  - Electric power: TK3242
- Crossed-field amplifiers:
  - TK7871.58.C75
- Crosshead and connecting rod
  - Steam engines: TJ535
- Crossings
  - Railway construction: TF263
- Crucible process
  - Steel metallurgy: TN735
- Cruciform wings
  - Airplanes: TL673.C7
- Crushed stone industry
  - Dust removal: TH7697.C7
  - Noise control: TD893.6.C78
- Crushing
  - Ore dressing and milling: TN510
- Crushing and milling machinery
  - Mechanical engineering: TJ1345
- Cryoelectronic devices
  - Electronics: TK7872.C77
- Cryogenic engineering: TP480+
- Cryopreservation
  - Biotechnology: TP248.25.C79
- Cryotrons
  - Computer engineering: TK7895.C7
- Cryptographic techniques
  - Coding theory: TK5102.94
- Cryptosporidium
  - Water pollutants: TD427.C78
- Crystal sets
  - Radio receiving apparatus: TK6564.C79
- Crystalline solids
  - Materials of engineering and construction: TA418.9.C7
- Crystallization
  - Chemical engineering: TP156.C7
- Cucumbers
  - Cooking: TX803.C83
  - Food processing and manufacture: TP444.C8
- Cultivators
  - Agricultural machinery: TJ1482

## INDEX

Cultured pearls  
Jewelry work: TS755.P4  
Culverts  
Highway engineering: TE213  
Railway structures: TF282  
Culverts, Cement: TA447  
Cupcakes  
Cooking: TX771+  
Cupola furnaces  
Foundry work: TS231  
Curbs  
Highway engineering: TE298  
Curbstones  
Highway engineering: TE298  
Curing  
Chemical engineering: TP156.C8  
Tobacco industry: TS2249  
Currant grapes  
Cooking: TX813.C87  
Current and voltage waveforms  
Electrical engineering: TK531  
Current converters  
Electronics: TK7872.C8  
Current meters and measurements  
Electrical engineering: TK331  
Current regulators  
Electronics: TK7872.C83  
Curry  
Cooking: TX819.C9  
Curtain making  
Handicrafts: TT390  
Curtain walls  
Building design and construction:  
TH2238  
Curves  
Railroad surveying: TF216  
Railway construction: TF264  
Cushioning  
Packaging: TS198.6.C8  
Cushioning materials  
Packaging waste  
Disposal: TD797.92  
Cushions  
Handicrafts: TT410  
Cushman motor scooters: TL453.C87

Customer relations  
Hotels, clubs, restaurants, etc.:  
TX911.3.C8  
Customizing  
Motor vehicles: TL255.2  
Motorcycles: TL442.7  
Cut glass  
Glassmaking: TP861  
Cutlery  
Metal manufactures: TS380+  
Cutouts  
Dynamoelectric machinery: TK2846  
Cutting  
Ceramic technology: TP814  
Dressmaking: TT520  
Iron and steel work: TA890+  
Men's tailoring: TT590  
Paper manufacture: TS1118.C8  
Plastics: TP1155  
Cutting machinery  
Machine shops: TJ1230+  
Paper manufacture: TS1118.C8  
Cutting tools  
Machine tools: TJ1186  
Cyanide process  
Gold and silver metallurgy: TN767  
Cyanides  
Chemical technology: TP248.C9  
Environmental pollutants: TD196.C93  
Sewage treatment: TD758.5.C93  
Soil pollutants: TD879.C93  
Water pollutants: TD427.C9  
Cyanines  
Textile dyes: TP918.C9  
Cyanite  
Mining engineering: TN948.C95  
Ore dressing and milling: TN538.C9  
Cyanobacteria  
Water pollutants: TD427.C92  
Cyanocobalamine  
Chemical technology: TP248.C93  
Cyanotypes  
Photographic processes: TR415  
Cyclamates  
Sweeteners: TP423  
Cyclecars: TL390



## INDEX

Cycles  
  Vehicles: TL400+  
Cyclists  
  Nutrition: TX361.C94  
Cyclized rubber  
  Manufactures: TS1927.C92  
Cyclodextrins  
  Biotechnology: TP248.65.C92  
  Chemical technology: TP248.C94  
Cyclododecane  
  Environmental pollutants: TD196.C94  
Cyclohexane  
  Environmental pollutants: TD196.C95  
Cycloidal engines: TJ731  
Cyclonite  
  Explosives: TP290.R39  
Cyclotetramethylene-tetranitramine  
  Explosives: TP290.C9  
Cylinder blocks  
  Gasoline automobiles: TL214.C93  
  Miscellaneous motors and engines:  
    TJ762.C94  
Cylinder heads  
  Gasoline automobiles: TL214.C93  
Cylinder systems  
  Cold water supply plumbing: TH6551  
Cylinders  
  Aircraft engines: TL702.C9  
  Diesel engines: TJ798.5  
  Gas engines: TJ774  
  Gasoline automobiles: TL214.C93  
  Internal combustion engines: TJ788  
  Locomotives: TJ659  
  Steam engines: TJ527+  
  Structural engineering: TA660.C9  
Cylinders, Metal  
  Engineering and construction:  
    TA492.C9  
Cylindrical antennas: TK7871.67.C95

## D

Daguerreotype  
  Photography: TR365  
Daily life for men, Economics of: TX147  
Dairy foods  
  Nutrition: TX377+

Dairy plants  
  Waste control: TD899.D3  
Dairy products  
  Cooking: TX759+  
Dairy waste  
  Rural engineering: TD930.4  
Dam failures  
  Hydraulic engineering: TC550.2  
Dam geology  
  Hydraulic engineering: TC542  
Dam safety  
  Hydraulic engineering: TC550  
Dam types: TC543+  
Damage by natural disasters  
  Railway operation: TF539  
Damper regulators  
  Hot water heating: TH7541  
  Hydronic systems: TH7477  
  Steam heating: TH7591  
Damping  
  Aerodynamics: TL574.S7  
Dampness in buildings  
  Protection from: TH9031  
Dams  
  Civil engineering: TA760+  
  Environmental effects: TD195.D35  
  Hydraulic engineering: TC540+  
  Hydrostatics: TC167  
Damsite selection  
  Hydraulic engineering: TC542+  
Dance photography: TR817.5  
Dandelions  
  Cooking: TX803.D34  
Danger areas  
  Airports: TL725.3.A6  
Dangerous structures  
  Building construction: TH153  
Dangers in mines and quarries:  
  TN311+  
Darien Canal: TC788  
Darkroom procedures  
  Photographic processing: TR530+  
Darkroom technique  
  Photography: TR287+  
Darkrooms  
  Photography: TR560

## INDEX

- Darning
  - Textile arts: TT730
- Dasheen
  - Food values: TX558.D3
- Data disk drives
  - Computer engineering: TK7887.8.D37
- Data loggers
  - Computer engineering: TK7895.D28
- Data processing
  - Applied fluid mechanics: TA357.5.D37
  - Biotechnology: TP248.25.A96
  - Building construction estimates: TH437
  - Chemical technology: TP184
  - Civil engineering: TA404.23
  - Hydraulic engineering: TC157.8
  - Industrial engineering: T57.5
  - Mechanical engineering: TJ153
  - Orbital transfer: TL1078
  - Photography in surveying: TA593.5
  - Production management: TS155.6+
  - Space trajectories: TL1078
  - Structural analysis: TA647
  - Transportation engineering: TA1165
- Data processing, Optical: TA1630+
- Data processing service centers
  - Energy conservation: TJ163.5.D38
- Data storage, Optical: TA1635
- Data tape drives
  - Computer engineering: TK7887.55
- Data tapes
  - Computer engineering: TK7895.D3
- Data transmission systems
  - Electrical engineering: TK5105+
- Date
  - Sugars and syrups: TP414
- Date palm fiber
  - Textile fiber: TS1747.D3
- Dates
  - Cooking: TX813.D3
  - Food values: TX558.D35
- Daylight
  - Photography: TR595
- DDN
  - Computer network: TK5105.875.D37
- DDT (Insecticide)
  - Water pollutants: TD427.D34
- De Havilland Aircraft Company:
  - TL686.D4
- De Havilland aircraft engines:
  - TL703.D4
- De Jur motion picture camera:
  - TR883.D4
- Deacidification
  - Paper manufactures: TS1118.D42
- Dead
  - Photographic portraits: TR681.D43
- Dead loads
  - Structural engineering: TA648.2
- Decalage
  - Airplanes: TL673.D4
- Decalcomania industry: TS2301.D4
- Decay
  - Deterioration of wood: TA423.2+
- Decision making
  - Environmental protection: TD171.8
- Decision support systems
  - Industrial engineering: T58.62
- Decision theory
  - Industrial engineering: T57.95
- Deck machinery
  - Electric driving: TK4059.D4
- Decks
  - Building construction: TH4970
- Decoders
  - Electronics: TK7872.D37
- Decommissioning of facilities
  - Nuclear engineering: TK9152.2
- Decontamination
  - Electronics: TK7870.27
  - Nuclear engineering: TK9152.2
- Decorated eggs
  - Decorative crafts: TT896.7
- Decorating
  - Motor vehicles: TL255.2
  - Plastics: TP1170
- Decoration
  - Building construction: TH8001+
  - Dining room: TX859
- Decoration, Table
  - Dining-room service: TX879

## INDEX

- Decorative balls
  - Decorative crafts: TT896.8
- Decorative crafts: TT855+
- Decorative finishes
  - Painting: TT323
- Decorative furnishings
  - Building construction: TH8001+
- Decorative needlework
  - Textile arts: TT740+
- Decorative painting on various materials: TT385
- Decorative tile
  - Building construction: TH8541+
- Decorative woodwork
  - Building construction: TH8581+
- Decoys
  - Carving and whittling: TT199.75
- Deep boring
  - Mining: TN281
- Deep geologic disposal
  - Hazardous substances: TD1064
- Deep Space Network: TL3026
- Deep-well injection
  - Disposal of sewage effluent: TD761
- Defense measures
  - Airports: TL725.3.D35
- Deflection systems
  - Television: TK6655.D43
- Deflections
  - Structural analysis: TA648.5
- Deformation of materials under stress: TA417.6
- Dehydration
  - Ceramic technology: TP815
  - Food preservation: TP371.5+
- Dehydrogenation
  - Chemical engineering: TP156.D4
- Delay lines
  - Electronics: TK7872.D4
- Delta wings
  - Airplanes: TL673.T7
- Demand controlled ventilation systems
  - Building construction: TH7682.D45
- Demulsification
  - Chemical engineering: TP156.D42
- Denatured alcohol
  - Distilling: TP593
- Dendrimers
  - Plastics: TP1180.D45
- Dense nonaqueous phase liquids
  - Hazardous substances and their disposal: TD1066.D45
- Dense phase carbon dioxide
  - pasteurization
  - Food preservation: TP371.46
- Denseness and porosity
  - Engineering materials: TA418.82
- Densimeters
  - Chemical technology: TP159.D4
- Density altitude
  - Aeronautical meteorology: TL557.D4
- Density altitude computers
  - Aeronautical meteorology: TL557.D4
- Dental clinics
  - Waste control: TD899.D46
- Dental offices
  - Waste control: TD899.D46
- Dentifrices
  - Organic chemical industries: TP955
- Deodorants: TP985
- Deodorization
  - Sewage treatment: TD747+
  - Ventilation of buildings: TH7699.D4
- Depreciation
  - Engineering economy: TA178
- Derrick cars
  - Railway equipment: TF490
- Derricks
  - Hoisting machinery: TJ1363+
- Desalination plants: TD479.4+
- Desalting, Ion exchange
  - Saline water conversion: TD480.7
- Design
  - Airplanes: TL671.2
  - Airships: TL660
  - Balloons: TL622
  - Dressmaking: TT520
  - Locomotives: TJ635
  - Machine tools: TJ1180+
  - Men's tailoring: TT590
  - Packaging: TS195.4
  - Petroleum pipelines: TN879.53
  - Radioactive waste sites: TD898.155.D47

## INDEX

- Design
  - Sewerage systems: TD658
  - Sewers: TD678+
- DesignCAD
  - Computer-aided engineering: TA345.5.D47
- Designs
  - Highway engineering: TE175
  - Patents: T324
- Desks
  - Woodworking: TT197.5.D4
- Desserts
  - Cooking: TX773
- Desulphuration
  - Chemical engineering: TP156.D43
- Detailing
  - Motor vehicle operation: TL152.15
  - Reinforced concrete construction: TA683.28
- Details
  - Dynamolectric machinery: TK2541
  - Locomotives: TJ640+
  - Telegraph: TK5455
- Details and parts
  - Aircraft engines: TL701.9+
- Detection equipment
  - Security in buildings: TH9739
- Detection of adulterants
  - Food: TX563
- Detectors
  - Electronics: TK7871.673+, TK7872.D48
  - Infrared technology: TA1573
  - Radio: TK6565.D4
- Detectors, Metal
  - Electronics: TK7882.M4
- Detectors, Motion
  - Electronics: TK7882.M68
- Detergents
  - Environmental pollutants: TD196.D48
  - Water pollutants: TD427.D4
- Deterioration
  - Properties of materials: TA418.74+
  - Underwater structures: TC200
- Deterioration of wood: TA422+
- Determinants
  - Engineering mathematics: TA347.D4
- Development
  - Photographic negatives: TR295
  - Technology: T175+
- Dew
  - Water supply: TD415
- Dewatering
  - Ore dressing and milling: TN535
  - Sewage treatment: TD769.7
- Dextrin
  - Starch: TP416.D4
- Dextrose
  - Sugars and syrups: TP414
- Diagrams of connections
  - Telegraph: TK5445
- Dial telegraphs: TK5515
- Diallyl phthalate
  - Plastics: TP1180.D5
- Dialysis
  - Chemical engineering: TP156.D45
- Diamond cutting
  - Jewelry manufacture: TS753.5
- Diamond mines and mining
  - Environmental effects: TD195.D5
- Diamonds
  - Artificial gems: TP873.5.D5
  - Electronics: TK7871.15.D53
  - Jewelry manufacture: TS753+
  - Machine tools: TJ1193
  - Mineral industries: TN990+
  - Prospecting: TN271.D5
- Diaper industry
  - Environmental effects: TD195.D53
- Diaphragms
  - Machinery: TJ247
  - Structural engineering: TA660.D52
- Diapositives
  - Photography: TR504+
- Diaspore
  - Mining engineering: TN948.D49
- Diatomaceous earth
  - Mining engineering: TN948.D5
- Diatomaceous earth filtration
  - Water purification: TD446
- Dibromochloropropane
  - Water pollutants: TD427.D52
- Dibutyltin
  - Water pollutants: TD427.D47

## INDEX

- Dictographs: TK6500
- Die work
  - Metal manufactures: TS253
- Diecasting
  - Foundry work: TS239
- Dielectric amplifiers: TK7871.22
- Dielectric devices
  - Electronics: TK7872.D53
- Dielectric separation
  - Ore dressing and milling: TN531
- Diemaking
  - Metal manufactures: TS253
- Diesel automobiles: TL229.D5
- Diesel engine electric plants: TK1075
- Diesel engines: TJ795+
  - Aircraft engines: TL704.2
- Diesel exhaust
  - Air pollutants: TD886.8
- Diesel locomotives: TJ619+
- Diesel motorcars
  - Railway equipment: TF498
- Diet
  - Nutrition: TX360+
- Dietary studies
  - Examination and analysis of food: TX551+
- Dietetic food: TP451.D53
- Dietitians: TX357
- Differential amplifiers: TK7871.58.D46
- Differential equations
  - Engineering mathematics: TA347.D45
- Diffraction, Geometrical
  - Seismic prospecting: TN269.83
- Diffusers
  - Jet engines: TL709.5.D5
  - Turbines: TJ267.5.D4
- Diffusion
  - Chemical engineering: TP156.D47
  - Petroleum engineering: TN871
- Digestion tanks
  - Sewage sludge treatment: TD769+
- Digital audio broadcasting
  - Radio: TK6562.D54
- Digital audiotape recorders and recording
  - Electronics: TK7881.65
- Digital cameras
  - Individual makes: TR263.A+
  - Photography: TR256
- Digital cinematography: TR860
- Digital communications
  - Electrical engineering: TK5103.7+
- Digital computers: TK7888.3+
- Digital control
  - Control engineering: TJ223.M53
- Digital electronic circuits: TK7868.D5
- Digital integrated circuits
  - Electronics: TK7874.65
- Digital photography: TR267+
- Digital plotters
  - Computer engineering: TK7887.8.D5
- Digital subscriber lines
  - Telecommunication: TK5103.78
- Digital television: TK6678
- Digital-to-analog converters
  - Computer engineering: TK7887.6
- Digital video: TK6680.5+
- Digital video recorders
  - Television: TK6655.D54
- Dihedral angle
  - Airplanes: TL673.D5
- Dikes
  - Coast protective works: TC337
- Dilution, Disposal by
  - Sewage effluent: TD763+
- Dimension-ordered routing
  - Computer networks: TK5105.54873.D56
- Dimensional analysis
  - Engineering mathematics: TA347.D5
- Dimensionless numbers
  - Engineering mathematics: TA347.D52
- Dining
  - Nutrition: TX631+
- Dining car service
  - Railway operation: TF668.A1+
- Dining cars
  - Railway equipment: TF461
- Dining room: TX855+
- Dining room furniture
  - Woodworking: TT197.5.D5

## INDEX

- Dining room service
  - Etiquette: TX851+
  - Hotels, clubs, restaurants, etc.: TX925
- Dinner-giving
  - Cooking: TX731
- Dinners
  - Cooking: TX737
- Diodes
  - Semiconductor: TK7871.86+
- Diolefins
  - Chemical technology: TP248.D5
- Dioscures project
  - Artificial satellites: TK5104.2.D5
- Dioxane
  - Water pollutants: TD427.D547
- Dioxins
  - Air pollutants: TD887.D56
  - Environmental pollutants: TD196.D56
  - Water pollutants: TD427.D55
- Dipatching
  - Airplanes: TL711.D4
- Dipole antennas: TK7871.67.D56
- Direct broadcast satellite television:
  - TK6677
- Direct coils
  - Hydronic systems: TH7481+
- Direct current
  - Dynamolectric machinery: TK2822
  - Electrical engineering: TK454.15.D57
- Direct current amplifiers: TK7871.58.D5
- Direct-current engineering: TK1111+
- Direct-current generators
  - Dynamolectric machinery: TK2661+
  - Types: TK2665
- Direct-current machinery
  - Dynamolectric machinery: TK2611+
  - Types: TK2631
- Direct-current motors
  - Dynamolectric machinery: TK2681
- Direct-current systems
  - Electric lighting: TK4303
  - Electrical engineering: TK3111
- Direct-current transforming machinery
  - Dynamolectric machinery: TK2691+
- Direct energy conversion devices:
  - TK2896+
- Direct filtration
  - Mechanical treatment of water purification: TD442
- Direct-indirect radiators
  - Hydronic systems: TH7490
- Direct methanol fuel cells
  - Electrical engineering: TK2933.D57
- Direct positives
  - Photographic processes: TR360+
- Direct processes
  - Steel metallurgy: TN733
  - Wrought iron: TN723
- Direct radiators
  - Hydronic systems: TH7481+
- Direct reproductions on same scale
  - Industrial photography: TR915+
- Direction finders
  - Aeronautical navigation: TL696.D5
  - Radio: TK6565.D5
- Directional drilling: TN871.23
- Directories, Industrial: T11.95+
- Directory services
  - Computer networks: TK5105.595
- Dirigibles: TL651
- Dirt bikes: TL441
- Dirt roads: TE230
- Disasters
  - Chemical technology: TP150.A23
- Disasters and engineering: TA495
- Disc brakes
  - Motor vehicles: TL269.36
- Discharge into streams, etc.
  - Sewage disposal: TD771.5
  - Sewage effluent: TD763+
- Discount stores
  - Consumer education: TX335+
- Dishwashing machines
  - Cooking: TX657.D6
- Disinfection
  - Sewage treatment: TD747+
  - Water purification: TD459+
- Disks
  - Turbines: TJ267.5.D5
- Dispatching of airplanes
  - Airports: TL725.3.D4
- Displacement ventilation
  - Building construction: TH7682.D57

## INDEX

- Display systems
  - Aeronautical instruments: TL589.3+
  - Motor vehicles: TL272.55
- Display systems, Three-dimensional: TK7882.T47
- Display techniques
  - Exhibitions: T396+
- Disposal
  - Sewage effluent: TD759+
- Disposal in the ground
  - Radioactive waste: TD898.2
- Disposal in the water
  - Radioactive waste: TD898.4
- Disposal of municipal refuse
  - Environmental technology: TD785+
- Disposal under the seabed
  - Radioactive waste: TD898.6
- Dissimilar welding: TS228.3
- Dissolved minerals, Removal of
  - Water purification: TD466
- Distaff
  - Spinning
    - Textile industries: TS1484
- Distance indicator
  - Aeronautical navigation: TL696.D6
- Distance measurement
  - Surveying: TA601
- Distance measuring equipment
  - Aircraft to ground station: TL696.D65
- Distillation
  - Chemical engineering: TP156.D5
- Distillation apparatus
  - Chemical technology: TP159.D5
- Distillation methods
  - Saline water conversion: TD480
- Distilled liquors: TP597+
- Distilleries
  - Building construction: TH4532
  - Fire prevention and extinction: TH9445.D5
  - Waste control: TD899.D5
- Distilling
  - Fermentation industries: TP589+
- Distributed amplifiers: TK7871.58.D54
- Distributed generation
  - Production of electric energy: TK1006
- Distributed point source method
  - Engineering mathematics: TA347.D57
- Distributed propulsion
  - Aircraft engines: TL701.3
- Distribution
  - Electric lighting: TK4251+
  - Gas industry: TP757
  - Telegraph: TK5401+
  - Telephone: TK6301+
- Distribution and transmission
  - Pneumatic machinery: TJ1000
- Distribution of electric power
  - Electrical engineering: TK3001+
- Ditches
  - Railway operation: TF548
- Ditching
  - Airplanes: TL711.D5
- Django
  - Web authoring software: TK5105.8885.D54
- Docks
  - Harbor engineering: TC355
- Documentary cinematography
  - Photography: TR895.4
- Documentary photography: TR820.5
- Dog food: TS2288.D63
- Dog owners
  - Photographic portraits: TR681.D63
- Dogfish
  - Cooking: TX748.D64
- Dogs
  - Nature photography: TR729.D6
- Doilies
  - Embroidery: TT775
- Doll clothes: TT175.7
- Doll furniture: TT175.5
- Dollhouses: TT175.3
- Dolls
  - Handicrafts: TT175+
- Domain names
  - Internet: TK5105.8835
- Dome boilers
  - Hot water heating: TH7518+
- Dome cars
  - Railway equipment: TF456

## INDEX

Domes  
  Building design and construction: TH2170+  
  Structural engineering: TA660.D6  
Domestic filters  
  Water purification: TD449  
Domestic heating  
  Buildings: TH7201+  
Domestic laundry work: TT985  
Domestic machines  
  Knitting: TT687  
Domestic refrigeration: TP492.6  
Domestic water supply: TD201+  
Door fittings  
  Building design and construction: TH2270+  
Door harps  
  Decorative crafts: TT899.73  
Door knobs  
  Building construction: TH2279  
Door openings  
  Fittings: TH2261+  
Door regulators  
  Hot water heating: TH7541  
  Hydronic systems: TH7477  
  Steam heating: TH7591  
Doorbells  
  Manufactures: TS589  
Doormen  
  Hotels, clubs, restaurants, etc.: TX926  
Doors  
  Building design: TH2278+  
Dopes  
  Aeronautics: TL699.D6  
Doppler radar: TK6592.D6  
Dormitories  
  Fire prevention and extinction: TH9445.D6  
DotNetNuke  
  Web authoring software: TK5105.8885.D68  
Double jacket stoves  
  Building construction: TH7436.D6  
Double wall piping  
  Mechanical engineering: TJ934

Dough  
  Food values: TX560.D68  
Doughnuts  
  Cooking: TX770.D67  
Douglas Aircraft Company: TL686.D65  
Down spouts  
  Building construction: TH2493  
Downwash  
  Aerodynamics: TL574.D6  
Draft  
  Furnaces: TJ333  
Draft appliances  
  Locomotives: TJ650  
Draft gear  
  Railroad cars: TF413  
Draft hoods  
  Gas stove heating: TH7457.D7  
Draft registers  
  Warm-air heating: TH7627  
Drafting  
  Airplanes: TL671.25  
  Dressmaking: TT520  
  Men's tailoring: TT590  
Drafting room practice  
  Mechanical engineering: TJ227  
Drag  
  Aerodynamics: TL574.D7  
Drag bikes: TL442.5  
Drag rope  
  Balloons: TL625.D7  
Dragsters: TL236.2+  
Drain piping  
  Plumbing: TH6628  
Drain supports  
  Plumbing: TH6644  
Drain tiles  
  Architectural ceramics: TP839  
  Engineering materials: TA447  
Drainage  
  Airports: TL725.3.D7  
  Highway engineering: TE215  
  Houses: TH6571+  
  Hydraulic engineering: TC970+  
  Railway construction: TF245  
Drainage system  
  Houses: TH6591  
  Plumbing: TH6641+



## INDEX

- Draining sewage
  - Plumbing: TH6651+
- Draining wastes
  - House drainage: TH6655+
- Dramatists
  - Photographic portraits: TR681.D74
- Drapes
  - Handicrafts: TT390
- Drawbridges: TG420
- Drawing, Fashion: TT509
- Drawing instruments: T375+
- Drawing materials: T375+
- Drawing-room management and practice
  - Mechanical drawing: T352
- Drawing, Structural
  - Mechanical drawing: T355
- Drawings
  - Building construction: TH431
  - Carpentry and joinery: TH5611
  - Electrical engineering: TK431
  - Engineering: TA175
  - Furniture design: TT196
  - Heating of buildings: TH7331
  - Highway engineering: TE175
  - Hot water heating: TH7513
  - Plastering: TH8132
  - Plumbing: TH6231
  - Reinforced concrete construction: TA683.28
  - Steam heating: TH7563
  - Warm-air heating: TH7602
- Drawnwork
  - Decorative needlework: TT785+
- Dreamweaver
  - Web authoring software: TK5105.8885.D74
- Dredges
  - Electric driving: TK4059.D73
  - Hydraulic engineering: TC188
- Dredging
  - Environmental effects: TD195.D72
  - Hydraulic engineering: TC187+
  - Water pollution: TD428.D74
- Dredging spoils
  - Water pollution: TD428.D74
- Dress accessories
  - Clothing manufacture: TT649.8+
- Dress forms
  - Dressmaking: TT523
- Dress reform
  - Women's tailoring: TT565
- Dressmaking: TT500+
- Dried foods
  - Cooking: TX826.5
- Driers
  - Paints: TP937.7
- Drift indicator
  - Aeronautical instrument: TL589.2.D7
- Drifting
  - Mining: TN285
- Drill cores
  - Rock mechanics: TA706.3
- Drilling
  - Mining: TN279
- Drilling machinery
  - Machine shops: TJ1260+
- Drilling platforms
  - Fire prevention and extinction: TH9445.D75
- Drills
  - Fire extinction: TH9402+
  - Machine shops: TJ1263+
- Drinking fountains
  - Water supply: TH6569.D7
- Drinking water
  - Railroad cars: TF451
- Driver assistance systems
  - Motor vehicles: TL272.57
- Driver education
  - Motor vehicle operation: TL152.6+
- Driver training
  - Buses: TL232.3
  - Trucks: TL230.3
- Drivers
  - Buses: TL232.3
  - Motor vehicles: TL152.3+
  - Trucks: TL230.3
- Drivers' tests
  - Motor vehicle operation: TL152.4
- Driveways
  - Engineering: TE279.3

## INDEX

- Driving
  - All terrain vehicle: TL235.7
  - Buses: TL232.3
  - Motor vehicle operation: TL152.5+
  - Off-road vehicle: TL235.7
  - Tractors: TL233.3
  - Trucks: TL230.3
- Driving gear
  - Cycles: TL420
- Driving simulators
  - Driver education: TL152.7.D7
- Drone aircraft control systems:
  - TL589.4+
- Drone aircraft guidance and control systems:
  - TL589.4+
- Drop-forging
  - Metal manufactures: TS225+
- Drop system
  - Steam heating: TH7567
- Dropping of cargo
  - Airplanes: TL711.D7
- Drug factories
  - Environmental effects: TD195.D78
- Drugs
  - Environmental pollutants: TD196.D78
  - Water pollutants: TD427.D77
- Drum brakes
  - Motor vehicles: TL269.37
- Drums
  - Packaging: TS198.6.D7
- Drupal
  - Web authoring software:
    - TK5105.8885.D78
- Dry-air blast
  - Blast furnaces: TN715
- Dry cleaning
  - Commercial garment cleaning:
    - TP932.3
- Dry cleaning industry
  - Water pollution: TD428.D78
- Dry docks
  - Harbor engineering: TC361
- Dry goods
  - Textile industries: TS1760+
- Dry ice
  - Refrigerants: TP492.82.D78
- Dry rot
  - Deterioration of wood: TA423.3
- Drydocks
  - Harbor engineering: TC361
- Drying
  - Chemical technology: TP363
  - Food preservation: TP371.5+
  - Lumber: TS837
  - Paper manufacture: TS1118.D7
  - Preservation of foods: TX609
  - Sewage treatment: TD769.7
  - Textile industries: TS1514
- Drying agents
  - Chemical technology: TP159.D7
- Drying equipment
  - Textile industries: TS1514
- Drying machinery
  - Paper manufacture: TS1118.D7
- Drywall
  - Decorative furnishings: TH8139
- Dubbing
  - Motion picture film: TR886.7
- Ducati motorcycle: TL448.D8
- Duck
  - Cooking: TX750.5.D82
- Duct inlets
  - Airplanes: TL673.D8
- Ductile states
  - Plastic properties and tests:
    - TA418.16+
- Dumbwaiters
  - Hoisting machinery: TJ1382
- Dumortierite
  - Mining engineering: TN948.D8
- Dumping devices
  - Conveying machinery: TJ1418
- Dune buggies: TL236.7
- Dunes
  - Coast protective works: TC339
- Duplex telegraph system: TK5531
- Duralumin
  - Aeronautics: TL699.D9
  - Engineering materials: TA480.A6
- Dust
  - Air pollutants: TD884.5
  - Fire prevention and extinction:
    - TH9446.D86

## INDEX

Dust control  
  Highway maintenance: TE220.63  
Dust preventives for unpaved roads:  
  TE221  
Dust removal  
  Ventilation of buildings: TH7692+  
Dutch oven cooking: TX840.D88  
DVB-H  
  Mobile television  
    Standard: TK6678.5.D84  
DVD players  
  Electronics: TK7882.D93  
DVDs  
  Electronics: TK7882.D93  
Dwellings  
  Air conditioning: TH7688.H6  
  Artificial lighting: TH7975.D8  
  Building construction: TH4805+  
  Energy conservation: TJ163.5.D86  
  Fire prevention and extinction:  
    TH9445.D9  
  Noise control: TD893.6.D94  
  Sanitary engineering: TH6057.A6  
  Security in buildings: TH9745.D85  
  Ventilation: TH7684.D9  
Dye lasers  
  Applied optics: TA1690  
Dyeing  
  Textiles: TP897+  
Dyeing industry, Waste from  
  Environmental technology:  
    TD899.C58  
Dyeing of garments  
  Textile decoration: TT853+  
Dyeing plants  
  Fire prevention and extinction:  
    TH9445.C6  
Dyes  
  Hairdressing: TT969  
  Textile decoration: TT854+  
  Textile dyeing: TP909.2+  
Dyes and dyeing  
  Leather industries: TS986  
  Paper manufacture: TS1118.D9  
Dynamic control  
  Structural engineering: TA654.9

Dynamic loading conditions  
  Structural analysis: TA654+  
Dynamic loads  
  Structural design: TA658.4+  
Dynamic programming  
  Industrial engineering: T57.83  
Dynamic properties  
  Time-dependent properties and tests:  
    TA418.32+  
Dynamics  
  Mechanical engineering: TJ170+  
  Motor vehicles: TL243+  
Dynamite  
  Explosives: TP285  
Dynamoelectric machinery and  
  auxiliaries: TK2000+  
Dynamometers: TJ1053  
Dynos: TK2411+  
Dynamotors  
  Dynamoelectric machinery: TK2693

## E

Earth  
  Housing material: TH4818.A3  
  Sidewalks: TE283  
Earth casting  
  Handicrafts: TT295  
Earth closets  
  Sewage disposal: TD776  
Earth flooring: TH2529.E27  
Earth inductor compass: TL589.2.E2  
Earth movements and building  
  Building construction: TH1094+  
Earth pressure  
  Embankments: TA765  
Earth roads: TE230  
Earth sheltered houses  
  Construction: TH4819.E27  
Earth-wall building construction:  
  TH1421  
Earthen dams: TC543  
Earthenware  
  Ceramic technology: TP820  
  Fire-resistive building construction:  
    TH1077+

## INDEX

- Earthenware stoves
  - Convective heating: TH7436.E4
- Earthmoving machinery: TA725
- Earthquake effects
  - Bridges: TG302
  - Electric power distribution system: TK3084
- Earthquake engineering: TA654.6
- Nuclear engineering: TK9152.163
- Earthquake forces
  - Structural engineering: TA654.6
- Earthquake resistant design
  - Structural engineering: TA658.44
- Earthquakes and building
  - Building construction: TH1095
- Earthquakes and dams
  - Hydraulic engineering: TC542.5
- Earthquakes and hydraulic structures: TC181
- Earthwork
  - Building construction: TH5101
  - Engineering: TA715+
  - Railroad construction: TF220+
- Earthworms
  - Cooking: TX746.2
- Easement of light
  - Natural lighting: TH7792
- Easter
  - Cooking: TX739.2.E37
- Easter decorations
  - Decorative crafts: TT900.E2
- Eave troughs
  - Building construction: TH2493
- Eavesdropping
  - Electronics: TK7882.E2
- Eccentric and eccentric-rod
  - Steam engines: TJ543
- Eccentric lathework: TT203
- Ecclesiastical vestments
  - Clothing manufacture: TT647
- Echo suppression
  - Coding theory: TK5102.98
- Ecological houses
  - Construction: TH4860
- Econet: TK5105.8.E25
- Economic aspects
  - Acid precipitation: TD195.56.E35
  - Economic aspects
    - Radioactive waste disposal: TD898.14.E36
  - Economic development
    - Environmental effects: TD195.E25
  - Economic geology: TN260
  - Economic lot size
    - Inventory control: TS162
  - Economic mineralogy: TN260
  - Economic order quantity
    - Inventory control: TS162
  - Economics of daily life for men: TX147
  - Economy
    - Food shopping: TX356
  - ECS satellites: TK5104.2.E29
  - Eddy current testing
    - Testing of materials: TA417.36
  - Eddy currents in electrical engineering: TK2271
  - Edible coatings
    - Food processing: TP451.E3
  - Edible oils and fats
    - Condiments: TX407.O34
  - Edison three-wire system
    - Electrical engineering: TK1121
  - Editing, Technical: T11.4
  - Education, Consumer
    - Household administration: TX335+
  - Education, Technical
    - Industrial engineering: T61+
  - Educational buildings
    - Building construction: TH4621+
  - Educational cinematography
    - Photography: TR892.7
  - Eels
    - Cooking: TX748.E32
  - Effect of radiation on electronics: TK7870.285
  - Efficiency
    - Industrial engineering: T58.8
  - Eggbeaters
    - Cooking: TX657.E35
  - Eggplant
    - Cooking: TX803.E4
  - Eggs
    - Biotechnology: TP248.65.E35
    - Cooking: TX745

## INDEX

### Eggs

Food values: TX556.E4

Nutrition: TX383

Preservation and storage: TX612.E4

Eggshell craft: TT896.7

### Elastic analysis

Structural analysis: TA653

Elastic properties and tests: TA418+

Elastohydrodynamic lubrication:

TJ1077.5 E43

### Elastomers

Engineering materials: TA455.E4

Manufactures: TS1925

Electric alarms: TK7201+

### Electric analysis

Testing of materials: TA417.35

Electric annunciators: TK7201+

Electric apparatus and materials:  
TK452+

### Electric batteries

Amateurs' manuals: TK9917

Electric bells and buzzers: TK7108+

Electric brakes: TK4081

Electric calculating machines: TK4090+

### Electric cells

Telegraph: TK5378

### Electric circuits

Electric engineering: TK454+

### Electric clocks

Manufactures: TS544

Electric cooking: TX827

### Electric cutting

Electric heating: TK4660.5

Electric discharge lighting: TK4371+

Electric driving: TK4058+

Electric elevators: TJ1374

### Electric energy storage

Electrical engineering: TK2980+

### Electric equipment

Aircraft: TL690+

Airports: TL725.3.E43

Diesel locomotives: TJ619.7

Fire prevention and extinction:  
TH9445.E43

Locomotives: TJ669.E4

Motor vehicles: TL272

Railways: TF368

### Electric equipment

Space vehicles: TL1100+

### Electric eye cameras

Photography: TR260.5

### Electric fields

Food preservation: TP371.7

### Electric furnace processes

Steel metallurgy: TN745

### Electric furnaces

Electric heating: TK4661

Electrometallurgy: TN687

### Electric generators

Amateurs' manuals: TK9911

### Electric heating

Electrical engineering: TK4601+

Heating of buildings: TH7409+

### Electric household appliances

Installation: TK7018+

### Electric ignitors

Building gas supply: TH6885+

### Electric insulators

Fire testing: TH9446.5.E43

Electric lamps: TK4310

### Electric light

Photographic processing: TR333

### Electric lighting

Electrical engineering: TK4125+

Mines: TN309

Railroad cars: TF449

Theory: TK4175

### Electric lighting and lamps

Amateurs' manuals: TK9921

### Electric lighting enterprises,

Management of: TK4186

### Electric lighting fixtures

Artificial lighting: TH7960+

### Electric lighting plants

Management: TK4238

### Electric lines

Environmental effects: TD195.E37

Noise control: TD893.6.E4

Electric locomotives: TF975

Electric logging: TN269.5+

Electric measurements: TK275+

Electric meters: TK301+

Electric mine locomotives: TN337

Electric motorcycles: TL448.E44

## INDEX

- Electric motors
  - Amateurs' manuals: TK9911
- Electric networks: TK454.2
- Electric power
  - Distribution and transmission: TK3001+
- Electric power, Applications of: TK4001+
- Electric-power circuits: TK3226
- Electric-power networks: TK3226
- Electric power plants
  - Air pollution: TD888.E43
  - Dust removal: TH7697.E45
  - Electrical engineering: TK1191+
  - Environmental effects: TD195.E4
  - Fire prevention and extinction: TH9445.E4
- Electric power rates: TK1841
- Electric power system stability: TK1010
- Electric power systems control: TK1007
- Electric processes
  - Gold and silver metallurgy: TN768
  - Metallurgy: TN706
- Electric propulsion systems: TL783.54+
- Electric pumping machinery: TJ910
- Electric radiant heating
  - Local heating: TH7434.5+
- Electric railways: TF854.2+
- Electric refrigerators: TP497.A1+
- Electric rockets: TL783.54+
- Electric spark machining
  - Machine tools: TJ1191
- Electric standards: TK275+
- Electric stoves
  - Cooking: TX657.S5
- Electric systems
  - Aircraft: TL690+
- Electric telfer systems
  - Conveying machinery: TJ1387
- Electric thermostat fire detectors
  - Fire prevention and extinction: TH9275
- Electric toasters
  - Cooking: TX657.T58
- Electric vehicles: TL220+
- Electric water heaters
  - Plumbing: TH6561.5
- Electric welding
  - Electrical engineering: TK4660
- Electric wiring
  - Telecommunication: TK5103.12
- Electrical engineering: TK1+
  - Insurance requirements: TK260
  - Systems: TK3101+
- Electrical engineering and equipment
  - Mines: TN343
- Electrical engineering as a profession: TK159
- Electrical manufacturing and engineering companies, General: TK451.A2+
- Electrical motive power
  - Canals: TC769
- Electrically heated steam boilers: TJ318
- Electricians' manuals: TK4164
- Electricity for amateurs: TK9900+
- Electricity in ocean engineering: TC1657
- Electrification of steam railroads: TF858+
- Electro-diesel locomotives: TF980
- Electroacoustic transducers: TK5981+
- Electroacoustics: TK5981+
- Electrochemical remediation
  - Soil remediation: TD878.47
- Electrochemical sensors
  - Chemical technology: TP159.E37
- Electrochemical telegraph system: TK5549
- Electrochemistry, Industrial
  - Environmental effects: TD195.E43
- Electrocoating
  - Painting: TT317
- Electrodes
  - Chemical technology: TP159.E39
  - Manufacture: TK7725
- Electrodialysis
  - Saline water conversion: TD480.5
- Electrohydrodynamic generators
  - Electrical engineering: TK2975
- Electroless plating
  - Metal finishing: TS662
- Electroluminescent devices: TK7871.68+

## INDEX

- Electroluminescent display systems:
  - TK7882.I6
- Electrolysis of water: TP259
- Electrolytic cells
  - Chemical technology: TP159.E4
- Electrolytic polishing
  - Metal finishing: TS654.5
- Electrolytic treatment
  - Sewage disposal: TD757
- Electromagnetic compatibility:
  - TK7867.2
- Electromagnetic interference: TK7867.2
  - Aeronautics: TL690.5
- Electromagnetic testing
  - Testing of materials: TA417.36
- Electromagnets
  - Control engineering: TJ223.E4
  - Electrical engineering: TK454.4.E5
- Electromechanical transducers: TK153
- Electrometallurgy: TN681+
  - Metal finishing: TS670+
- Electron gun
  - Electronics: TK7872.E45
- Electron tubes
  - Electronics: TK7871.7+
  - Radio: TK6565.V3
- Electronic alarm systems
  - Industrial safety: T55.3.E44
- Electronic apparatus
  - Waste disposal: TD799.85
- Electronic appliances
  - Waste disposal: TD799.85
- Electronic cameras
  - Cinematography: TR882+
- Electronic circuits: TK7867+
- Electronic components and apparatus,
  - Manufacture of: TK7836
- Electronic computer methods
  - Structural engineering: TA641
- Electronic control: TK7881.2
- Electronic data processing
  - Aeronautics: TL563
  - Engineering mathematics: TA345+
  - Hotels, clubs, restaurants, etc.: TX911.3.E4
- Electronic data processing departments
  - Fire prevention and extinction: TH9445.E45
- Electronic equipment
  - Aircraft communication: TL693+
  - Fire prevention and extinction: TH9445.E46
  - Motor vehicles: TL272.5+
  - Space vehicles: TL3000+
- Electronic flash
  - Photography: TR606
- Electronic games and toys
  - Amateurs' manuals: TK9971
- Electronic instruments: TK7878.4+
- Electronic locking devices
  - Security in buildings: TH9735
- Electronic mail systems
  - Local area networks: TK5105.73+
- Electronic measurements: TK7878+
- Electronic methods
  - Aircraft communication: TL693+
- Electronic packaging: TK7870.15+
- Electronic paper: TK7882.E44
- Electronic plants and equipment:
  - TK7836
- Electronic security systems
  - Security in buildings: TH9737
- Electronic surveillance: TK7882.E2
- Electronic troubleshooting: TK7870.2
- Electronic villages
  - Electrical engineering: TK5105.83
- Electronics: TK7800+
  - Amateurs' manuals: TK9965+
  - Rockets: TL784.E4
- Electronics, Applications of: TK7880+
- Electronics as a profession: TK7845
- Electronics, Effect of radiation on:
  - TK7870.285
- Electronics in transportation: TA1235
- Electronics plants
  - Building construction: TH4533
- Electronics, Printed: TK7872.P75
- Electrooptical devices: TA1750+
- Electrooptics, Applied: TA1750+
- Electrophoretic deposition
  - Painting: TT317

## INDEX

- Electrophotography
  - Photomechanical processes: TR1035+
- Electroplated ware: TS675
- Electroplating
  - Environmental effects: TD195.E45
  - Metal finishing: TS670+
- Electroslag process
  - Electrometallurgy: TN686.5.E4
- Electrostatic charging
  - Space environment: TL1492
- Electrostatic flocking
  - Textile industries: TS1512.5
- Electrostatic precipitation
  - Dust removal: TH7695.E4
- Electrostatic printing
  - Photomechanical processes: TR1042+
- Electrostatic separation
  - Chemical engineering: TP156.E5
- Elementary school courses
  - Driver education: TL152.65
- Elementary school students
  - Nutrition: TX361.E43
- Elephants
  - Nature photography: TR729.E45
- Elevated railways: TF840+
- Elevator operators
  - Hotels, clubs, restaurants, etc.: TX926
- Elevator service
  - Apartment houses: TX959
  - Buildings: TJ1380
- Elevators
  - Airplanes: TL677.E6
  - Fire prevention and extinction: TH9445.E48
  - Hoisting machinery: TJ1370+
  - Mine transportation: TN339+
- Embankments
  - Civil engineering: TA760+
  - Coast protective works: TC337
- Embassy buildings
  - Building construction: TH4758
- Embedded computer systems
  - Computer engineering: TK7895.E42
- Embedded Internet devices
  - Computer engineering: TK7895.E43
- Emblems
  - Metal manufactures: TS761
- Embroidery
  - Decorative needlework: TT769+
- Embroidery, Machine: TT772
- Embroidery (Machine made)
  - Textile industries: TS1783
- Embroidery silk: TT777
- Emeralds
  - Jewelry work: TS755.E5
  - Mineral industries: TN997.E5
- Emergency lighting
  - Electric lighting: TK4399.E5
- Emergency maneuvers
  - Airplanes: TL711.E57
- Emergency planning
  - Nuclear engineering: TK9152.13
- Emergency power supply: TK1020
- Emergency ventilation
  - Building construction: TH7682.E44
- Emery
  - Mining engineering: TN936
- Emery wheels
  - Abrading machinery: TJ1290
- Emissions from motor vehicles
  - Air pollutants: TD886.5
- Employee facilities and buildings
  - Plant engineering: TS188
- Employee training in factories
  - Aeronautics: TL560.25.A1+
- Emu
  - Cooking: TX750.5.E45
- Emulsion
  - Chemical engineering: TP156.E6
- Emulsion processes
  - Photographic process: TR395
- Enameled ware, Catalogs of
  - Metal finishing: TS705
- Enameling
  - Handicrafts: TT382.6
  - Metal finishing: TS700+
- Enamels: TP939
  - Ceramic technology: TP812.A1+
  - Engineering materials: TA455.E5
- Enclosure fires
  - Fire prevention: TH9195



## INDEX

- Endless carriers
  - Conveying machinery: TJ1390+
- Endurance flights
  - Airplanes: TL711.E6
- Endurance properties and tests:
  - TA418.36+
- Endurance tests
  - Motor vehicles: TL290
- Energy conservation
  - Mechanical engineering: TJ163.26+
  - Telecommunication: TK5102.86
- Energy consumption
  - Hotels, clubs, restaurants, etc.:
    - TX911.3.E45
- Energy development
  - Environmental effects: TD195.E49
- Energy facilities
  - Environmental effects: TD195.E5
- Energy harvesters
  - Electronics: TK2897
- Energy meters and measurements
  - Electrical engineering: TK351
- Energy minerals
  - Mining engineering: TN263.5
- Energy storage
  - Mechanical engineering: TJ165
- Energy systems, Thermal: TJ255+
- Engine houses
  - Management: TF595
  - Railway structures: TF296
- Engine instruments
  - Aeronautical engineering: TL589.6+
- Engineering: TA1+
- Engineering analysis: TA329+
- Engineering design: TA174
- Engineering economy: TA177.4+
- Engineering geology: TA703+
- Engineering, Geotechnical: TA703+
- Engineering graphics: T351+
- Engineering, Hydraulic
  - Environmental effects: TD195.H93
- Engineering implements: TA213+
- Engineering instruments, meters, etc.:
  - TA165
- Engineering laboratories: TA416+
- Engineering machinery: TA213+
- Engineering mathematics: TA329+
- Engineering meteorology: TA197+
- Engineering models: TA177
- Engineering tools: TA213+
- Engineers
  - Accounting: TA185
- Engines
  - Gasoline automobiles: TL210+
- Engines for utilization of furnace and waste gases and heat: TJ780
- Engobes
  - Ceramic decoration: TP823
- Enjoyment of smoking
  - Tobacco industry: TS2249
- Enlargement
  - Photographic processing: TR475
- Enlargements
  - Industrial photography: TR905
- Enrichment
  - Nuclear engineering: TK9360+
- Enterobacteriaceae
  - Water pollutants: TD427.E68
- Entertaining
  - Cooking: TX731
- Entertainment centers
  - Woodworking: TT197.5.E57
- Entourage (Electronic mail system):
  - TK5105.74.E57
- Envelope
  - Airships: TL662.E6
  - Balloons: TL625.E6
- Environmental aspects
  - Hazardous substances and their disposal: TD1050.E58
  - Industries: TD194+
  - Plants: TD194+
  - Product engineering: TS170.5
  - Production management: TS155.7
  - Radioactive waste disposal:
    - TD898.14.E58
- Environmental auditing: TD194.7+
- Environmental chemistry: TD193+
  - Chemical engineering: TP155.2.E58
- Environmental effects of light pollution:
  - TD195.L52
- Environmental effects, Space
  - Engineering materials: TA418.59
- Environmental engineering: TA170+

## INDEX

- Environmental engineering
    - Buildings: TH6014+
    - Electronics: TK7870.24+
    - Space: TL1489+
  - Environmental forensics
    - Measurement of pollution: TD193.4
  - Environmental geotechnology: TD171.9
  - Environmental hydraulics: TC163.5
  - Environmental impact analysis
    - Environmental effects of industries and plants: TD194.6+
  - Environmental impact statements
    - Environmental effects of industries and plants: TD194.5+
  - Environmental laboratories:
    - TD178.8.A1+
  - Environmental pollutants, Special:
    - TD195.4+
  - Environmental pollution: TD172+
  - Environmental protection: TD169+
  - Environmental reporting: TD194.8+
  - Environmental technology: TD1+
  - Environmental testing: TA171
- Enzymatic browning
    - Food processing: TP372.55.E59
  - Enzymes
    - Biotechnology: TP248.65.E59
    - Chemical technology: TP248.E5
    - Food additives: TP456.E58
    - Food constituent: TX553.E6
  - Eolipiles: TJ725
  - Epichlorohydrin
    - Air pollutants: TD887.E64
  - Epoxy resins
    - Engineering materials: TA455.E6
    - Insulating material: TK3441.E6
    - Plastics: TP1180.E6
  - Equalizers
    - Control engineering: TJ223.E65
    - Electronics: TK7872.E7
  - Equations, Differential
    - Engineering mathematics: TA347.D45
  - Equations, Integral
    - Engineering mathematics: TA347.I5
  - Equestrian roads
    - Highway engineering: TE303
  - Equilibrium
    - Chemical engineering: TP156.E65
  - Equipment
    - Airports: TL725.3.E6
    - Blacksmithing: TT224
    - Cooking: TX656+
    - Heating of buildings: TH7345
    - Petroleum pipelines: TN879.54
    - Petroleum refining: TP690.6
    - Photogrammetry: TR696
    - Plant engineering: TS191+
    - Pollution control methods: TD192
  - Equipment analysis
    - Manufacturing engineering: TS181+
  - Equipment and supplies
    - Ceramic technology: TP809.5
    - Pipelines: TJ933
    - Woodpulp industry: TS1176.6.E7
  - Equipment, Contractors': TA201+
  - Equivalent circuit
    - Electrical engineering: TK454.15.E65
  - Erbium
    - Chemical technology: TP245.E6
  - Erecting work
    - Machinery: TJ249
  - Erie Canal
    - Inland navigation: TC625.E6
  - Ernemann cameras
    - Photography: TR263.E75
  - Erotic photography: TR676
  - Error correction
    - Coding theory: TK5102.96
  - Error detection and recovery
    - Mechanical engineering: TJ211.417
  - Errors
    - Photography in surveying: TA593.9.E75
  - Errors in workmanship
    - Machine shop practice: TJ1167
  - ES 1020 computer: TK7889.E5
  - Escalators: TJ1376
  - Esparto
    - Textile fiber: TS1747.E8
  - Essences
    - Organic chemical industries: TP958+
  - Essential oils
    - Organic chemical industries: TP958+

## INDEX

### Esters

Chemical technology: TP248.E62

### Estimates

Building construction: TH434+

Carpentry and joinery: TH5614+

Cement and concrete construction:  
TA682.26

Commercial buildings: TH4315

Earthwork: TA721

Electrical engineering: TK435

Engineering economy: TA183

Heating of buildings: TH7335+

Houses: TH4815.8

Machine shops: TJ1148

Masonry construction: TH5330

Municipal refuse and solid wastes:  
TD793.7

Plastering: TH8132

Plumbing: TH6234+

Railroad engineering: TF193

Reinforced concrete construction:  
TA683.26

Saline water conversion: TD479.3

### Estimates of labor

Pipefitting: TH6721

### Estimates of material

Pipefitting: TH6721

### Estimating

Cost control: TS166

Foundry work: TS238

Machine shops: TJ1148

### Estimation of value

Hydraulic engineering: TC409

### Estrogen

Water pollutants: TD427.E82

### Etching

Aircraft propellers: TL706.E8

Chemical engineering: TP156.E68

### Ethanol

Distilling: TP593

Fuel: TP358

### Ether

Chemical technology: TP248.E65

### Ethernet: TK5105.8.E83

### Ethers

Organic chemical industries: TP958+

### Ethics

Hotels, clubs, restaurants, etc.:  
TX911.3.E84

Ethnic restaurants: TX945.4

### Ethylcellulose

Chemical technology: TP248.E68

### Ethylene

Chemical technology: TP248.E72

### Ethylene dibromide

Water pollutants: TD427.E83

### Ethylene dichloride

Air pollutants: TD887.E83

### Ethylene oxide

Environmental pollutants: TD196.E86

### Ethylene-propylene rubber

Manufactures: TS1927.E86

### Eucalyptus

Woodpulp industry: TS1176.4.E9

### Eucalyptus oils

Organic chemical industries:  
TP959.E9

### Eutectic alloys

Engineering and construction:  
TA483.3

### Evacuation structures, Vertical

Building construction: TH1096.5

### Evaluation

Radioactive waste disposal:  
TD898.14.E83

Radioactive waste sites:  
TD898.155.E83

### Evaporating

Chemical technology: TP363

### Evaporation control

Reservoirs: TD397

### Evaporators

Chemical technology: TP159.E85

### Event data recorders

Motor vehicles: TL272.54

### Evolutionary computation

Engineering mathematics: TA347.E96

### Evolutionary robotics: TJ211.37

### Exakta cameras

Photography: TR263.E9

### Examination

Water: TD380+

### Examination of food: TX501+

## INDEX

Examinations  
  Building construction: TH166  
Excavating  
  Mining: TN277  
Excavating machinery: TA735+  
  Electric driving: TK4059.E9  
  Railroad construction: TF225+  
Excavation  
  Building construction: TH5101  
Excavations  
  Engineering: TA730+  
Excavators  
  Hoisting machinery: TJ1355  
Excelsior  
  Packaging: TS198.6.E9  
Exchanges  
  Telephone: TK6211+  
Executives  
  Nutrition: TX361.E93  
Exhaust, Automobile  
  Air pollutants: TD886.5  
Exhaust, Diesel  
  Air pollutants: TD886.8  
Exhaust emissions  
  Rockets: TL784.E86  
Exhaust emissions, Aircraft  
  Air pollutants: TD886.7  
Exhaust-steam utilization systems  
  Low-pressure steam heating: TH7577  
Exhaust systems  
  Diesel engines: TJ799  
  Gasoline automobiles: TL214.E93  
Exhausters  
  Pneumatic machinery: TJ960+  
Exhausts  
  Locomotives: TJ650  
  Steam engines: TJ567  
Exhibitions  
  Technology: T391+  
Exiles  
  Photographic portraits: TR681.E94  
Expandable space structures  
  Space vehicles: TL940  
Expansion boards  
  Computer engineering: TK7895.E96  
Expansion joints  
  Rockets: TL784.E9

Expansion joints  
  Steam powerplants: TJ424  
  Structural engineering: TA660.E9  
Expansion tanks  
  Hot water heating: TH7542  
Expansion, Thermal  
  Properties of materials: TA418.56+  
Experimental design  
  Industrial engineering: T57.37  
Experiments  
  Examination and analysis of food:  
    TX551+  
Exploration  
  Airplanes: TL721.1  
Explosion or ignition devices  
  Gas engines: TJ773  
Explosion prevention and protection  
  Industrial safety: T55.3.E96  
Explosion systems  
  Fire prevention and extinction:  
    TH9339  
Explosionproof apparatus  
  Electrical engineering: TK454.4.E9  
Explosions  
  Mines: TN313  
  Sewers: TD690  
  Water heaters: TH6565+  
Explosive forming  
  Metal manufactures: TS257  
Explosive welding: TS228.96  
Explosives  
  Chemical technology: TP270+  
  Coal mining: TN803  
Explosives and pyrotechnics  
  Chemical technology: TP267.5+  
Exposed film  
  Cinematography: TR886.2  
  Photographic processing: TR530+  
Exposure bracketing  
  Photography: TR594  
Exposure to harmful environments,  
  Packaging for protection from:  
    TS198.7+  
Exposures  
  Photography: TR591+  
Express  
  Railway operation: TF659

## INDEX

Expression Web (Microsoft)  
  Web authoring software:  
    TK5105.8885.M525  
Exterior insulation and finish systems  
  Building design and construction:  
    TH2238.7  
Exterior walls  
  Building design and construction:  
    TH2235+  
Extraction  
  Biotechnology: TP248.25.E88  
  Chemical engineering: TP156.E8  
Extractors  
  Chemical technology: TP159.E9  
Extracts  
  Flavoring aids: TP419  
Extranets  
  Computer networks: TK5105.875.E87  
Extraterrestrial radio communication:  
  TK6571+  
Extravehicular activity  
  Space travel: TL1096  
Extrusion  
  Chemical engineering: TP156.E98  
  Plastics: TP1175.E9  
Extrusion of metals  
  Metal manufactures: TS255  
Eye protectors  
  Plastic: TP1185.E9

## F

Fabric flowers  
  Decorative crafts: TT890.5+  
Fabric folding  
  Textile arts: TT840.F33  
Fabrics  
  Aeronautics: TL699.F2  
Fabrics, Coating of  
  Textile industries: TS1512  
Face painting (Handicrafts)  
  Decorative crafts: TT911  
Facsimile transmission  
  Television: TK6710+  
Factories  
  Air conditioning: TH7688.F2+  
  Air pollution: TD888.F3

Factories  
  Artificial lighting: TH7975.F2  
  Building construction: TH4511+  
  Design: TS177  
  Dust removal: TH7697.F2  
  Electric lighting: TK4399.F2  
  Electric power: TK4035.F3  
  Energy conservation: TJ163.5.F3  
  Environmental effects: TD194+  
  Fire prevention and extinction:  
    TH9445.M4+  
  Heating and ventilation: TH7392.M6  
  Plant engineering: TS186  
  Plumbing: TH6515.F2  
  Sanitary engineering: TH6057.F3  
  Security in buildings: TH9745.F3  
  Size: TS177.3  
  Ventilation: TH7684.F2  
Factory canteens  
  Food service: TX946.5.A1+  
Factory construction, Drawings of:  
  TH4516  
Factory equipment and methods  
  Airplanes: TL671.28  
Factory management: TS155+  
Factory methods  
  Motor vehicles: TL278  
  Rockets: TL784.3+  
Factory planning  
  Manufacturing engineering: TS177  
Factory sanitation: TD895+  
Factory wastes: TD896+  
Factory wiring  
  Electric power: TK3283  
Facts for smokers  
  Tobacco industry: TS2249  
Fagoting  
  Embroidery: TT778.F33  
Failure  
  Dams: TC550.2  
  Petroleum pipelines: TN879.55  
Failure analysis: TA169.5+  
Failure of materials: TA409  
Failure of structures: TA656+  
Failures  
  Electronics: TK7870.23  
Falling block rifles: TS536.6.F34

## INDEX

- Fallout shelters
  - Building construction: TH1097
- Families
  - Photographic portraits: TR681.F28
- Family cinematography
  - Photography: TR896+
- Famous persons
  - Photographic portraits: TR681.F3
- Fancy articles
  - Decorative crafts: TT890+
- Fancy work
  - Textile arts: TT740+
- Fans
  - Electric driving: TK4059.F35
  - Ventilation of buildings: TH7683.F3
- Faolite
  - Engineering materials: TA455.F3
- Far infrared lasers
  - Applied optics: TA1696
- Farm buildings
  - Construction: TH4911+
  - Electric lighting: TK4399.F3
  - Heating and ventilation: TH7392.F3
  - Sanitary engineering: TH6057.F35
  - Ventilation: TH7684.F3
- Farm engines: TJ712
  - Gas engines: TJ777.F3
- Farm machinery
  - Mechanical engineering: TJ1480+
- Farm roads
  - Highway engineering: TE229.2
- Farm sanitary engineering: TD920+
- Farmers
  - Nutrition: TX361.F37
  - Photographic portraits: TR681.F316
- Farmhouses
  - Building construction: TH4920
  - Plumbing: TH6515.F3
- Farms
  - Electric power: TK4018
  - Fire prevention and extinction: TH9445.F35
  - Photography: TR739.5
- Fashion: TT500+
- Fashion drawing: TT509
- Fashion exhibitions: TT502
- Fashion magazines: TT500.A2+
- Fashion photography: TR679
- Fashion shows: TT502
- Fashion writing: TT503.5
- Fast day cooking: TX837+
- Fast express trains: TF573
- Fast food restaurants
  - Food service: TX945.3
- Fast reactors
  - Nuclear engineering: TK9203.F3
- Fasteners
  - Aeronautics: TL697.F37
  - Machine shops: TJ1320+
- Fat substitutes: TP447.F37
- Father and child
  - Photographic portraits: TR681.F32
- Fathers and daughters
  - Photographic portraits: TR681.F33
- Fathers and sons
  - Photographic portraits: TR681.F34
- Fatigue
  - Man-machine systems: T59.72
  - Psychological aspects: T59.72
  - Structural analysis: TA656.3
- Fatigue behavior
  - Endurance properties and tests: TA418.38
- Fats
  - Chemical technology: TP669+
- Fats (Animal and vegetable)
  - Food values: TX560.F3
- Faucets
  - Water supply plumbing: TH6528
- Feather flowers
  - Decorative crafts: TT891
- Feather industry: TS2301.F4
- Feather renovating
  - Chemical technology: TP933
- Feed apparatus
  - Steam boilers: TJ375+
- Feed pumps
  - Steam boilers: TJ385
- Feedback amplifiers: TK7871.58.F4
- Feedback control systems
  - Mechanical engineering: TJ216
- Feeders
  - Chemical technology: TP159.F4

## INDEX

- Feedforward control systems
  - Mechanical engineering: TJ216.5
- Feedlots
  - Waste control: TD899.F4
- Feeds
  - Biotechnology: TP248.65.F44
- Feedwater heaters
  - Steam boilers: TJ381+
- Feedwater purification
  - Steam boilers: TJ379
- Feldspar
  - Mining engineering: TN948.F3
- FELIX C-256 computer: TK7889.F44
- Felt
  - Composition roofing: TH2451
  - Decorative crafts: TT880
  - Nonwoven fabrics: TS1830.F44
- Felt marker decoration: TT386
- Felt work
  - Textile arts: TT849.5
- Felting
  - Nonwoven fabrics: TS1830.F44
- Felts
  - Paper manufacture: TS1118.F4
- Fences
  - Building construction: TH4955+, TH4965
  - Railway structures: TF277
  - Security in buildings: TH9732
- Fenders
  - Hydraulic engineering: TC373
- Fermentation, Industrial
  - Chemical engineering: TP156.F4
- Fermentation industries
  - Chemical technology: TP500+
- Fermentation of molasses: TP592
- Fermented food
  - Cooking: TX827.5
  - Food values: TX560.F47
- Fermented milk
  - Beverages: TP565
- Fermenting
  - Food preservation: TP371.44
- Ferrari automobile: TL215.F47
- Ferrite devices
  - Electronics: TK7872.F4
- Ferrites
  - Electronics: TK7871.15.F4
- Ferrochromium
  - Metallurgy: TN757.F25
- Ferroelectric devices
  - Electronics: TK7872.F44
- Ferromagnetography
  - Photography: TR1050
- Ferromanganese
  - Metallurgy: TN757.F3
- Ferronickel
  - Metallurgy: TN757.F33
- Ferrosilicon
  - Metallurgy: TN757.F4
- Ferrottype
  - Photography: TR375
- Ferrous metals
  - Metallurgy: TN701.482+
- Ferry bridges: TG435
- Ferrying
  - Airplanes: TL711.F47
- Fertilization
  - Pollution control methods: TD192.6
- Fertilizer industry
  - Air pollution: TD888.F45
  - Environmental effects: TD195.F46
  - Waste control: TD899.F47
- Fertilizer, Sewage disposal as: TD774+
- Fertilizers
  - Environmental pollutants: TD196.F47
  - Organic chemical industries: TP963+
  - Water pollutants: TD427.F45
- Fiber building boards
  - Building construction: TH1555
- Fiber glass
  - Engineering materials: TA450
- Fiber optics
  - Telecommunication: TK5103.592.F52
- Fiber optics, Applied: TA1800+
- Fiber strengthened composites
  - Engineering and construction: TA481.5
- Fiberboard
  - Wood products: TS875
- Fiberglass craft: TT297.8
- Fiberloid
  - Plastics: TP1180.F5

## INDEX

### Fibers

- Air pollutants: TD887.F48
- Engineering materials: TA418.9.F5
- Food constituent: TX553.F53
- Reinforced plastics: TP1177.5.F5

### Fibrous composites

- Engineering materials: TA418.9.C6

### Field and runway localizer: TL696.L3

### Field, C.W.: TK5611

### Field effect transistors: TK7871.95

### Field poles

- Generators: TK2465

### Field shoes

- Generators: TK2466

### Field winding and spools

- Generators: TK2475

### Field yoke

- Generators: TK2464

### Fieldwork

- Metallography: TN690.65

### Fighter kites: TL759.6.F54

### Figs

- Cooking: TX813.F5

### Filaments

- Electric lighting: TK4365

### File Transfer Protocol: TK5105.5665

### Files and filing

- Machine shops: TJ1285

### Fillers

- Chemical technology: TP159.F47
- Mining engineering: TN948.F45
- Paints: TP937.7

### Filletts, Metal

- Engineering and construction: TA492.F4

### Fills and embankments

- Highway engineering: TE210.8

### Film cameras

- Individual makes: TR263.A+

### Film catalogs

- Machine shops: TJ1127

### Films

- Electronics: TK7871.15.F5
- Packaging materials: TS198.3.F5
- Plastics: TP1183.F5
- Sensitive surfaces
- Photography: TR283

### Filo dough

- Cooking: TX770.F55

### Filter basins and plants

- Mechanical treatment of water purification: TD447

### Filter presses

- Lifting machinery: TJ1470+

### Filters

- Radio: TK6565.F5

### Filters (Electric)

- Electronics: TK7872.F5

### Filtration

- Chemical engineering: TP156.F5
- Sewage purification: TD753
- Water purification: TD441+

### Finance

- Hotels, clubs, restaurants, etc.: TX911.3.F5

### Finance, Household: TX326.A1+

### Finials

- Building construction: TH2495

### Finish carpentry: TH5640+

### Finishes

- Aeronautics: TL699.F5

### Finishing

- Ceramic technology: TP814
- Paper manufacture: TS1118.F5
- Photographic processing: TR310
- Plastics: TP1170
- Textile industries: TS1510
- Treatment of positives
- Photographic processing: TR337
- Woodworking: TT199.4

### Finishing industry

- Energy conservation: TJ163.5.F5

### Finishing processes

- Boot and shoemaking: TS1007
- Cement and concrete construction: TA682.49
- Cotton manufactures: TS1580
- Woolen manufactures: TS1630

### Finite element method

- Engineering mathematics: TA347.F5

### Fins

- Airplanes: TL677.F5

### Fire alarms: TH9271+



## INDEX

- Fire and fire prevention
  - Chemical technology: TP265+
- Fire carts: TH9378+
- Fire clay
  - Engineering materials: TA455.F5
- Fire department management
  - Building construction: TH9158
- Fire departments, City: TH9500+
- Fire detection: TH9271+
- Fire detectors: TH9271
- Fire doors
  - Building design: TH2278+
  - Fire-resistive building construction: TH1069
- Fire drills: TH9402+
- Fire engines
  - Fire extinction: TH9371+
- Fire escapes
  - Building construction: TH2274
- Fire extinction
  - Building construction: TH9111+, TH9310+
- Fire extinction equipment: TH9360+
- Fire extinguishers: TH9362
- Fire extinguishing agents: TP266
  - Water pollution: TD428.F57
- Fire fighters
  - Physical training: TH9128
- Fire hose: TH9378+
- Fire hydrants: TH9365
- Fire inspectors' handbooks: TH9176
- Fire insurance engineering
  - Fire prevention and extinction: TH9201+
- Fire investigation: TH9180
- Fire prevention
  - Aeronautics: TL697.F5
  - Airports: TH9445.A5
  - Building construction: TH9111+, TH9241+
  - Motor vehicles: TL241
  - School buildings: TH9445.S3
  - Space vehicles: TL901
- Fire prevention as a profession: TH9119
- Fire pumps: TH9363
- Fire-resistant construction, Tests of: TH1091+
- Fire resistant plastics: TH1074
- Fire resistant polymers: TH1074.5
- Fire-resistive building construction: TH1061+
- Fire-retardant coatings
  - Building construction: TH1073
- Fire shutters
  - Fire-resistive building construction: TH1069
- Fire streams
  - Fire extinction: TH9323
- Fire testing
  - Building construction: TH1091+
- Fire testing of materials
  - Fire prevention: TH9446.3+
- Firearms
  - Manufactures: TS532+
- Firearms, Muzzle-loading
  - Manufactures: TS535.8
- Firearms, Repeating
  - Manufactures: TS536
- Fireboats
  - Fire prevention and extinction: TH9391
- Fireboxes
  - Locomotives: TJ646+
- Firebrick
  - Brickmaking: TP832.F5
- Fireclay products
  - Architectural ceramics: TP838
- Firedamp
  - Mining engineering: TN305+
- Firefox: TK5105.883.F55
- Fireless cookers
  - Cooking: TX831
- Firemen's associations: TH9500+
- Firemen's manuals: TH9151
  - Steam boilers: TJ289
- Fireplace cooking: TX840.F5
- Fireplace heating with wood
  - Radiative heading: TH7424+
- Fireplaces
  - Radiative heating: TH7425+
- Fireproof building construction: TH1061+

## INDEX

- Fireproofing
  - Building construction: TH1073+
- Fireproofing agents: TP266.5
- Fireproofing of fabrics: TP267
- Fires
  - Fire prevention and extinction:
    - TH9448+
  - Mines: TN315
  - Motor vehicles: TL241
  - Space vehicles: TL901
- Fires and smoking
  - Fire prevention: TH9197
- Fires and static electricity
  - Fire prevention: TH9198.5
- Fires, Tests in
  - Fire-resistive-building construction:
    - TH1093
- Firewall
  - Airplanes: TL681.F5
- Fireworks (Web authoring software):
  - TK5105.8885.F55
- First aid
  - Mining engineering: TN297
- Fish
  - Adulteration: TX595.F47
  - Cooking: TX747+
  - Food values: TX556.5
  - Nature photography: TR729.F5
  - Nutritional value: TX385
  - Preservation and storage: TX612.F5
  - Utilization of waste: TP996.F5
- Fisheries
  - Use of airplanes: TL722.2
  - Waste control: TD899.F5
- Fishers
  - Nutrition: TX361.F5
- Fishery processing industries
  - Environmental effects: TD195.F52
  - Waste control: TD899.F57
- Fishing lodges
  - Construction: TH4880
- Fishplates
  - Railway construction: TF261
- Fission reactors: TK9202+
- Fittings
  - Steam heating: TH7595
- FiWi access networks: TK5105.775
- Fixed bed reactors: TP159.F49
- Fixed ladders
  - Building design and construction:
    - TH2258
- Fixing
  - Photographic negatives: TR305
  - Photographic positives: TR335
- Flagging
  - Pedestrian facilities: TE280+
- Flags
  - Textile arts: TT850.2
- Flags industry: TS2301.F6
- Flame hardening
  - Steel metallurgy: TN752.F4
- Flame monitors
  - Building gas supply: TH6882
- Flammability of materials
  - Fire prevention: TH9446.3+
- Flanges, Metal
  - Engineering and construction:
    - TA492.F5
- Flaps
  - Airplanes: TL673.F6
- Flare gas systems
  - Chemical technology: TP159.F52
- Flash
  - Computer animation: TR897.72.F53
- Flash photography: TR605+
- Flash (Web authoring software):
  - TK5105.8885.F59
- Flashlight
  - Photography: TR605+
- Flat coils
  - Radiators: TH7483
- Flat roofs
  - Building construction: TH2409
- Flavor
  - Wine and winemaking: TP548.5.F55
- Flavoring
  - Meat-packing industries: TS1974.F5
- Flavoring aids: TP418+
- Flavoring extracts
  - Adulteration: TX589
- Flax industry: TS1700+
- Flexible AC transmission systems
  - Electrical engineering: TK3148
- Flexible electronics: TK7872.F54

## INDEX

- Flexible manufacturing systems
  - Manufactures: TS155.65
- Flexible packaging: TS198.F55
- Flexible structures
  - Structural engineering: TA660.F53
- Flexure
  - Testing of materials: TA417.7.F5
- Flickr: TR267.5.F55
- Flight mechanics: TL1050+
- Flight recorders
  - Aeronautical instrument: TL589.2.F5
- Flight simulators
  - Airplanes: TL712.5
- Flight trainers
  - Airplanes: TL712.5
- Flight training
  - Airplanes: TL712+
- Flint
  - Mining engineering: TN948.F5
- Flintknapping
  - Handicrafts: TT293
- Flitch beams
  - Structural engineering: TA660.F57
- Floating airports: TL725.7
- Floating docks
  - Harbor engineering: TC363
- Floating harbors
  - Harbor engineering: TC363
- Floating piers
  - Harbor engineering: TC363
- Floatplanes: TL684.3
- Floats
  - Seaplanes: TL684.3
- Flocculants
  - Chemical technology: TP159.F54
- Flocculation
  - Biotechnology: TP248.25.F55
  - Chemical engineering: TP156.F55
  - Sewage purification: TD751
  - Water purification: TD455
- Flocking, Electrostatic
  - Textile industries: TS1512.5
- Flood control
  - Hydraulic engineering: TC530+
- Flood control channels
  - Hydraulic engineering: TC531
- Flooding
  - Deserts and wastelands: TC950+
  - Mines: TN318
- Floodlighting
  - Electric lighting: TK4399.F55
- Floor drainage
  - Plumbing: TH6671.F6
- Floor framing
  - Building construction: TH2311
- Flooring
  - Building: TH2521+
- Floors
  - Bridge engineering: TG325.6
  - Building: TH2521+
  - Structural engineering: TA660.F6
- Florida Information Resource Network
  - Computer networks: TK5105.875.F55
- Flotation
  - Ore dressing and milling: TN523
- Flour
  - Adulteration: TX595.F5
  - Food values: TX558.W5
- Flour mills
  - Electric power: TK4035.F6
  - Fire prevention and extinction: TH9445.M45
  - Noise control: TD893.6.F58
  - Ventilation: TH7684.F45
- Flourides
  - Water pollutants: TD427.F54
- Flow
  - Aerodynamics: TL574.F5
- Flow chemistry
  - Chemical engineering: TP156.F6
- Flow cytometry
  - Biotechnology: TP248.25.F57
- Flow of fluids
  - Space environment: TL1496
- Flow of fluids in pipes
  - Hydraulic machinery: TJ935
- Flow of gases in pipes
  - Pneumatic machinery: TJ1025+
- Flow of liquids
  - Chemical engineering: TP156.F6
- Flow theory
  - Sewers: TD675+

## INDEX

Flow, Unsteady  
  Applied fluid mechanics:  
    TA357.5.U57  
Flow, Viscous  
  Applied fluid mechanics:  
    TA357.5.V56  
Flow visualization  
  Applied fluid mechanics: TA357.5.F55  
Flower wines  
  Beverages: TP561  
Flowers  
  Cooking: TX814.5.F5  
  Embroidery: TT773  
  Nature photography: TR724+  
  Nutrition: TX396  
Flowmeters  
  Hydraulic machinery: TJ935  
Flue gases  
  Air pollutants: TD885+  
Flues  
  Building construction: TH2281+  
  Ventilation of buildings: TH7683.R4  
  Warm-air heating: TH7625  
Fluid dynamics  
  Engineering: TA357+  
  Petroleum pipelines: TN879.56  
  Space environment: TL1496  
  Turbomachinery: TJ267  
Fluid fuel reactors  
  Nuclear engineering: TK9203.F5  
Fluid mechanics, Applied: TA357+  
Fluid-structure interaction  
  Applied fluid mechanics: TA357.5.F58  
Fluidic devices: TJ853+  
Fluidics: TJ853+  
Fluidization  
  Chemical engineering: TP156.F65  
Fluids  
  Well drilling: TN871.27  
Flumes  
  Hydrodynamics: TC175+  
Fluorescent lamps and systems:  
  TK4386  
Fluoridation  
  Water purification: TD467  
Fluorides  
  Air pollutants: TD887.F63

Fluorine  
  Air pollutants: TD885.5.F57  
  Chemical technology: TP245.F6  
Fluorine compounds  
  Engineering materials: TA455.F54  
  Environmental pollutants: TD196.F54  
Fluorine organic compounds  
  Insulating material: TK3441.F55  
Fluorite  
  Prospecting: TN271.F6  
Fluoro-organic compounds  
  Chemical technology: TP248.F5  
Fluorocarbons  
  Air pollutants: TD887.F67  
  Environmental pollutants: TD196.F55  
  Plastics: TP1180.F6  
Fluorspar  
  Mining engineering: TN948.F6  
  Prospecting: TN271.F6  
Flush tanks  
  Plumbing: TH6500  
Flushing apparatus  
  Sewer appurtenances: TD698  
Flushing systems  
  Cold water supply plumbing: TH6544  
Flutter  
  Aerodynamics: TL574.F6  
  Aircraft propellers: TL706.B3  
Fluxes in plumbing: TH6297  
Fly ash  
  Engineering materials: TA455.F55  
  Soil stabilization: TE210.5.F55  
  Water pollutants: TD427.F58  
Fly-by-wire systems  
  Airplanes: TL678.5  
Flying  
  Aeronautics: TL710+  
Flying automobiles  
  Airplanes: TL684.8  
Flying boats  
  Seaplanes: TL684.2  
Flying clubs  
  Airplanes: TL713.5  
Flying exhibits: TL722.5  
Flying machines (Non-airplanes):  
  TL713.7+  
Flying saucers: TL789+

## INDEX

- Flying schools
  - Airplanes: TL713.A+
- Flying signboards
  - Airplane advertising: TL722.5
- Flywheel
  - Steam engines: TJ541
- FM broadcasting
  - Radio: TK6562.F2
- Foam flotation
  - Sewage purification: TD754.5
  - Water purification: TD473
- Foam fractionation
  - Chemical engineering: TP156.F66
  - Sewage purification: TD754.5
  - Water purification: TD473
- Foamed materials
  - Engineering materials: TA418.9.F6
- Foamed plastics: TP1183.F6
- Focaccia
  - Cooking: TX770.F63
- Focus automobiles: TL215.F69
- Fog
  - Water supply: TD415
- Fog control
  - Aeronautical meteorology: TL557.F6
- Fog-pollutant mixtures
  - Air pollutants: TD884.3
- Foils
  - Packaging materials: TS198.3.F5
- Folded plates
  - Structural engineering: TA660.P63
- Folding
  - Paper manufacture and trade: TS1200.A1+
- Folding, Fabric
  - Textile arts: TT840.F33
- Folding machinery
  - Paper manufacture and trade: TS1200.A1+
- Folding wings
  - Airplanes: TL675
- Food
  - Biotechnology: TP248.65.F66
  - Space environment: TL1560
- Food additives
  - Food processing: TP455+
- Food economy in war time: TX357
- Food handling in the home: TX599+
- Food industry
  - Electric power: TK4035.F67
  - Energy conservation: TJ163.5.F6
  - Environmental effects: TD195.F57
  - Fire prevention and extinction: TH9445.F6
  - Noise control: TD893.6.F64
  - Waste control: TD899.F585
- Food manufacturing
  - Chemical technology: TP368+
- Food of animal origin
  - Cooking: TX743+
  - Food values: TX555+
  - Nutrition: TX371+
- Food photography: TR656.7
- Food presentation
  - Cooking: TX740.5
- Food processing
  - Chemical technology: TP368+
- Food processing plants
  - Air conditioning: TH7688.F24
  - Building construction: TH4526
  - Chemical technology: TP373
  - Dust removal: TH7697.F55
- Food processor recipes
  - Cooking: TX840.F6
- Food research institutes
  - Nutrition: TX341+
- Food service: TX901+
  - Business mathematics: TX911.3.M33
  - Hotels, clubs, restaurants, etc.: TX943+
  - Transportation engineering: TA1227
- Food standards
  - Examination and analysis: TX537
- Food storage pests: TP373.3
- Food substitutes
  - Food processing and manufacture: TP446+
- Food supply
  - Home economics: TX341+
- Food tourism: TX631+
- Food truck cooking: TX840.F76
- Food values
  - Examination and analysis of food: TX551+

## INDEX

- Food writers
  - Cooking
    - Biography: TX649.A1+
- Foods
  - Home economics: TX341+
- Foods for special purposes: TP450+
- Foot baths
  - Plumbing: TH6494, TH6495
- Football stadiums
  - Environmental effects: TD195.S68
- Footbridges: TG428
- Footpaths
  - Pedestrian facilities: TE280+
- Footwear
  - Clothing manufacture: TT678.5
- Forced circulation systems
  - Hot water heating: TH7535
- Forced draft
  - Furnaces: TJ335
- Forecasting, Technological: T174
- Foreign visitors
  - Photographic portraits: TR681.V58
- Foremen
  - Manufacturing personnel: TS155.5
- Forensic engineering: TA219
- Forensics, Mobile device: TK5103.4837
- Forest roads
  - Highway engineering: TE229.5
- Forestry
  - Water pollution: TD428.F67
- Forge shops
  - Noise control: TD893.6.F65
- Forging
  - Handicrafts: TT215+
  - Metal manufactures: TS225+
- Formaldehyde
  - Chemical technology: TP248.F6
  - Environmental pollutants: TD196.F65
- Formaldehyde release
  - Wood products: TS858
- Formation damage
  - Well drilling: TN871.24
- Formic acid
  - Chemical technology: TP248.F63
- Formula One automobiles: TL236.265
- Formwork
  - Cement and concrete construction: TA682.44
  - Reinforced concrete construction: TA683.44
- Fossil fuels
  - Air pollutants: TD887.F69
  - Environmental pollutants: TD196.F67
- Fossil gums
  - Mining engineering: TN885
- Fouling organisms
  - Water pollutants: TD427.F68
- Foundation
  - Generators: TK2458.F68
- Foundation garments
  - Clothing manufacture: TT677
- Foundation work
  - Building construction: TH5201
- Foundations
  - Building design and construction: TH2101
  - Engineering: TA775+
  - Highway engineering: TE210+
  - Machinery: TJ249
  - Steam engines: TJ523
  - Walls: TH2221
- Founding
  - Nonferrous metals: TS375
- Foundries
  - Air pollution: TD888.F6
  - Dust removal: TH7697.F6
  - Environmental effects: TD195.F6
  - Heating and ventilation: TH7392.F6
  - Waste control: TD899.F6
- Foundry equipment and supplies: TS237
- Foundry management: TS238
- Foundry work
  - Metal manufactures: TS228.99+
- Fountain pens
  - Stationery: TS1266
- Fountains
  - Building construction: TH4977
  - Cement manufacture: TP885.F7
  - Water distribution systems: TD482
  - Water supply: TH6569.F7

## INDEX

- Four-stroke engines
  - Internal combustion engines: TJ790
- Four Wheel Drive Vehicles: TL230.5.F6
- Fourth of July decorations
  - Decorative crafts: TT900.F68
- Fracture
  - Strength of materials: TA409
- Fracture, Brittle
  - Structural analysis: TA656.4
- Frame
  - Airships: TL662.F7
  - Cycles: TL415
  - Motor vehicles: TL255+
- Frame relay
  - Packet switching: TK5105.38
- Frame setting
  - Steam engines: TJ525
- Frames
  - Reinforced concrete construction: TA683.5.F8
  - Structural engineering: TA660.F7
  - Window and door: TH2272
- Frames and running gear
  - Locomotives: TJ640
- Frames, Continuous
  - Structural engineering: TA660.F72
- Frames, Multistory
  - Structural engineering: TA660.F73
- Framing
  - Building construction: TH2301+
- Framing of prints
  - Photographic processing: TR340
- Frache-Comté cooking: TX719.2.F73
- Frasca engines
  - Internal combustion engines: TJ792
- Free balloons, Operation of: TL626+
- Free electron lasers
  - Applied optics: TA1693
- Free flight
  - Airports: TL725.3.F73
- Free lance cinematography
  - Photography: TR894.4
- Free piston engines: TJ779
- Free space optics
  - Telecommunication: TK5103.592.F73
- Freehand drawing, Technical: T359
- Freelance photography: TR690.2
- Freeze-drying
  - Food preservation: TP371.6
- Freezing
  - Food preservation: TP372.3
  - Home preservation of foods: TX610
- Freezing methods
  - Saline water conversion: TD480.2
- Freezing of pipes
  - Plumbing: TH6685
- Freight
  - Railway operation: TF662+
  - Transportation engineering: TA1210+
- Freight cars
  - Railway equipment: TF470+
- Freight service
  - Electric railways: TF970
- Freight subways: TF850+
- Freight trains: TF580+
- Freight yards and terminals
  - Railway structures: TF305+
- French toast
  - Cooking: TX770.F73
- Frequency changers
  - Electronics: TK7872.F7
  - Radio: TK6565.F7
- Frequency division multiple access: TK5103.4817
- Frequency meters
  - Electronics: TK7879.4
- Frequency meters and measurements
  - Electrical engineering: TK381
- Frequency modulation radios: TK6564.F7
- Frequency synthesizers
  - Electronics: TK7872.F73
- Frequency-voltage converters
  - Electronics: TK7872.V54
- Frescoing
  - Painting: TT323
- Fresh air inlets
  - House drainage: TH6649
- Fretwork
  - Building construction: TH8581+
- Friction
  - Aerodynamics: TL574.F7
  - Mechanical engineering: TJ1075+

## INDEX

- Friction clutches
  - Mechanical engineering: TJ1074
- Friction metals
  - Metallography: TN693.F7
- Frogs
  - Railway construction: TF266+
- Front desk
  - Hotels: TX911.3.F75
- Front-screen projection
  - Cinematography: TR859
- Frontage roads
  - Highway engineering: TE228.7
- FrontPage (Microsoft)
  - Web authoring software: TK5105.8885.M53
- Frozen food
  - Cooking: TX828
- Frozen ground construction
  - Engineering: TA713
- Fructose
  - Cooking: TX819.F78
- Fruit
  - Food processing: TP440+
  - Food values: TX558.F7
  - Nutrition
    - Home economics: TX397
    - Preparation (Cooking): TX811+
    - Preservation and storage: TX612.F7
- Fruit drinks
  - Cooking: TX817.F78
- Fruit juices
  - Beverages: TP562+
- Fruit processing plants
  - Waste control: TD899.F7
- Fruit products
  - Food processing: TP440+
- Fruit wines
  - Beverages: TP561
- Fryers
  - Cooking equipment: TX657.F7
- Frying
  - Cooking process: TX689+
- Fuel
  - Aircraft engines: TL704.7
  - Chemical technology: TP315+
  - Locomotives: TJ648
  - Rockets: TL785
- Fuel cells
  - Electrical engineering: TK2931+
  - Vehicles: TL221.13
- Fuel claddings
  - Nuclear reactors: TK9207.5
- Fuel consumption
  - Motor vehicle operation: TL151.6
- Fuel economizers
  - Furnaces: TJ340
- Fuel elements
  - Nuclear reactors: TK9207
- Fuel feeding
  - Aircraft engines: TL702.F8
- Fuel injection systems
  - Diesel engines: TJ797
  - Gasoline automobiles: TL214.F78
- Fuel reprocessing plants, Reactor
  - Environmental effects: TD195.R4
- Fuel systems
  - Diesel engines: TJ797
  - Furnaces: TJ324.5
  - Gasoline automobiles: TL214.F8
  - Jet engines: TL709.5.F8
  - Miscellaneous motors and engines: TJ762.F84
  - Rockets: TL784.F8
- Fuel testing plants: TP322
- Fugu
  - Cooking: TX748.F83
- Fujifilm cameras
  - Photography: TR263.F85
- Fullers' earth
  - Mining engineering: TN948.F9
- Fulminates
  - Explosives: TP293
- Fumes
  - Air pollutants: TD884.5
- Fumigants
  - Environmental pollutants: TD196.F85
- Fumigation
  - Protection of buildings: TH9041
- Function generators
  - Computer engineering: TK7895.F8
  - Electronics: TK7872.F85
- Functional analysis
  - Engineering mathematics: TA347.F86



## INDEX

Functionally gradient materials  
  Engineering materials: TA418.9.F85  
Functions of complex variables  
  Engineering mathematics:  
    TA347.C64  
Fungal biotechnology: TP248.27.F86  
Fungal remediation  
  Pollution control methods: TD192.72  
Fungi  
  Cooking: TX803.F85  
  Deterioration of wood: TA423.2+  
  Nature photography: TR726.F85  
  Packaging protection: TS198.8.F8  
  Water pollutants: TD427.F85  
Fungicides  
  Chemical technology: TP248.F79  
  Preservation of wood: TA424.6.F8  
Funny cars: TL236.23  
Fur garments  
  Women's tailoring: TT525  
Furaldehyde  
  Chemical technology: TP248.F8  
Furans  
  Plastics: TP1180.F8  
Furnaces  
  Central heating: TH7470+  
  Chemical technology: TP159.F87  
  Fire prevention and extinction:  
    TH9445.F87  
  Glassmaking: TP859.5  
  High-pressure hot water heating:  
    TH7534.A+  
  Hot water heating: TH7538+  
  Low-pressure hot water heating:  
    TH7529  
  Steam boilers: TJ320+  
  Steam heating: TH7588+  
  Warm-air heating: TH7623+  
Furnaces, Cupola  
  Foundry work: TS231  
Furnishing  
  The house: TX311+  
Furnishings  
  Hotels, clubs, restaurants, etc.:  
    TX912  
  Men's clothing: TT627  
  Taverns, barrooms, saloons: TX952+

Furnishings, Table  
  Dining-room service: TX877  
Furniture  
  Finishing: TS886  
  Fire testing: TH9446.5.F87  
  Manufactures: TS840+  
  Metal manufactures: TS408  
  Wood manufactures: TS879.2+  
  Woodworking: TT194+  
Furniture design  
  Woodworking: TT196  
Furniture, Plastic  
  Plastic technology: TP1185.F8  
Furs  
  Manufactures: TS1060+  
Fuselage  
  Airplanes: TL680+  
Fuses  
  Dynamoelectric machinery: TK2841+  
  Electric power transmission: TK3511  
  Explosives: TP293  
Fusible plugs  
  Furnaces: TJ356  
Fusion reactors: TK9204  
FutureTense Texture  
  Web authoring software:  
    TK5105.8885.F87

## G

Gadolinium  
  Chemical technology: TP245.G2  
Gage  
  Steam boilers: TJ363  
Gages  
  Machine shop practice: TJ1166  
Gaging and testing  
  Distilling: TP609  
Gaging systems  
  Machine shop practice: TJ1166  
Galena: TN452.G3  
Gallium  
  Chemical technology: TP245.G4  
  Metallurgy: TN799.G3  
Gallium arsenide  
  Electronics: TK7871.15.G3

## INDEX

Gallium nitride  
  Electronics: TK7871.15.G33  
Galvanizing  
  Metal finishing: TS660  
Galvanometers  
  Electric meters: TK311  
Game  
  Cooking: TX751  
  Nutrition: TX375  
Game theory  
  Industrial engineering: T57.92  
Games  
  Electronics: TK7882.G35  
Gamma ray lasers  
  Applied optics: TA1694  
Gantt charts: TS157.7  
Gap  
  Airplanes: TL673.G3  
Garages  
  Building construction: TH4960  
  Fire prevention and extinction:  
    TH9445.G3  
  Heating and ventilation: TH7392.G37  
Garand rifle: TS536.6.G37  
Garbage  
  Waste disposal: TD801+  
Garden furniture  
  Cement manufacture: TP885.G3  
Garden structures  
  Construction: TH4961+  
Garden toolsheds  
  Building construction: TH4962  
Garden walks  
  Building construction: TH4970  
Gardens  
  Artistic photography: TR662  
Garlic  
  Cooking: TX819.G3  
  Food processing and manufacture:  
    TP444.G37  
Garment industry: TT490+  
Garments, Dyeing of  
  Textile decoration: TT853+  
Garnets  
  Mineral industries: TN997.G3  
Garnishes  
  Cooking: TX740.5

Gas  
  Blast furnaces: TN718  
  Fuel: TP345.A1+  
  Lighter-than-air craft fuel: TL666  
Gas air conditioning: TH7687.85  
Gas appliances  
  Building construction: TH6855+  
Gas burning installations  
  Furnaces: TJ325  
Gas cells  
  Airships: TL662.G3  
Gas chromatography  
  Food analysis: TX548.2.G36  
Gas cooled reactors  
  Nuclear engineering: TK9203.G3  
Gas engines: TJ770+  
Gas fireplace heating  
  Local heating: TH7434  
Gas fixtures  
  Building construction: TH6855+  
Gas fuels  
  Central heating: TH7466.G3  
Gas heating  
  Central heating: TH7463  
  Heating of buildings: TH7405+  
Gas in buildings  
  Plumbing: TH6800+  
Gas industry  
  Chemical technology: TP750.2+  
  Environmental effects: TD195.G3  
  Waste control: TD899.G3  
Gas lasers  
  Applied optics: TA1695  
Gas lighting  
  Building construction: TH7910+  
Gas lighting fixtures  
  Artificial lighting: TH7960+  
Gas logs  
  Local heating: TH7434  
Gas-lubricated bearings  
  Mechanical engineering: TJ1073.5  
Gas manufacture and works  
  Air pollution: TD888.G37  
Gas masks  
  Industrial safety: T55.3.G3  
Gas meters  
  Building construction: TH6870

## INDEX

Gas ovens  
  Cooking: TX657.O6  
Gas powerplants: TJ768  
Gas producer automobiles: TL229.G3  
Gas producers for industrial purposes:  
  TP762  
Gas recorders  
  Gas industry: TP754  
Gas refrigerators: TP497.A1+  
Gas, Sewer: TD690  
Gas storage: TP756  
Gas stove heating  
  Building construction: TH7453+  
Gas stoves  
  Convective heating: TH7454+  
  Cooking: TX657.S6  
Gas toasters  
  Cooking: TX657.T6  
Gas tubes: TK7871.8+  
Gas turbine automobiles: TL226+  
Gas turbine locomotives: TJ622  
Gas-turbine motorcars  
  Railway equipment: TF499  
Gas turbine power plants: TK1076  
Gas turbines: TJ778  
Gas water heaters  
  Plumbing: TH6561  
Gas welding: TS228+  
Gas well drilling: TN880.2  
Gas well supplies  
  Petroleum engineering: TN871.5  
Gascony cooking: TX719.2.G37  
Gaseous fuel  
  Chemical technology: TP343+  
Gases  
  Air pollutants: TD885+  
  Chemical technology: TP242+  
  Insulating material: TK3441.G3  
Gases as conductors  
  Electric power: TK3311.G3  
Gases, Asphyxiating  
  Effect on food: TX571.G3  
Gases, Compressed  
  Automobiles: TL228  
Gases from explosives  
  Mines: TN306  
Gases in mines: TN305+

Gases, Poisonous  
  Effect on food: TX571.G3  
Gasholders: TP756  
Gasification of coal: TP759  
Gasification of oil: TP759  
Gaskets  
  Gasoline automobiles: TL214.G37  
  Machinery: TJ246  
Gasohol  
  Fuel: TP358  
Gasoline  
  Fire prevention and extinction:  
    TH9446.G3  
  Petroleum products: TP692.2  
Gasoline automobiles: TL205+  
Gasoline engines  
  Mine transportation: TN338  
Gasoline fire engines: TH9377  
Gasoline handling and storage:  
  TP692.5  
Gasoline locomotives: TJ621  
Gasoline motorcars  
  Railway equipment: TF497  
Gasoline stoves  
  Cooking: TX657.S7  
Gastronomy: TX15+  
  Nutrition: TX631+  
Gasworks  
  Gas industry: TP752  
  Noise control: TD893.6.G37  
Gate array circuits  
  Computer engineering: TK7895.G36  
Gates  
  Building construction: TH4955+,  
    TH4965  
  Dams: TC553  
  Hydraulic powerplants: TJ847  
  Hydrostatics: TC169  
  Irrigation engineering: TC937  
Gateways  
  Computer networks: TK5105.543  
Gauges  
  Railway construction: TF244  
Gazebos  
  Building construction: TH4963  
Gear  
  Aircraft propellers: TL707.G4

## INDEX

- Gear-cutting machines
  - Mechanical movements: TJ187
- Gear wheels
  - Electric railways: TF949.G4
- Gearing
  - Aircraft engines: TL702.G4
  - Mechanical engineering: TJ184+
- Gelatin
  - Cooking: TX814.5.G4
  - Food values: TX556.G45
  - Organic chemical industries: TP965
- Gelatine relief processes
  - Photography: TR990+
- Gem cutting: TS752.5
- Gemini project: TL789.8.U6G4
- Gems
  - Jewelry manufacture: TS747+
  - Mining: TN980+
- General Motors automobiles: TL215.G4
- General Packet Radio Service
  - Wireless communication systems: TK5103.482
- Generators: TK2411+
  - Aircraft: TL691.G4
  - Design and construction: TK2435
  - Details: TK2451+
  - Electrical details: TK2471+
  - Magnetic details: TK2461+
  - Mechanical details: TK2456+
  - Space vehicles: TL1102.G4
  - Testing: TK2433
  - Types: TK2441+
- Genetic engineering
  - Biotechnology: TP248.6
- Geneva mechanisms
  - Mechanical engineering: TJ181.7
- Geochemistry
  - Radioactive waste disposal: TD898.14.G46
- Geodesic domes
  - Building design and construction: TH2170.52
- Geodesy
  - Radar: TK6595.G4
- Geodetic satellites: TL798.G4
- Geographical applications
  - Applied photography: TR786+
- Geographical displays
  - Aeronautical instruments: TL589.35.G46
- Geographical subdivisions
  - Telegraph: TK5609+
- Geology
  - Radioactive waste disposal: TD898.14.G47
- Geology, Applied: TN260
- Geology, Economic: TN260
- Geology, Engineering: TA703+
- Geology of coal deposits
  - Coal mining: TN805+
- Geometric lathework: TT203
- Geometric methods
  - Engineering mathematics: TA347.G46
- Geometric programming
  - Industrial engineering: T57.825
- Geometrical diffraction
  - Seismic prospecting: TN269.83
- Geophysical surveying: TN269+
- Geosynthetics
  - Engineering materials: TA455.G44
- Geotechnical engineering: TA703+
- Geothermal district heating of buildings: TH7416.5
- Geothermal engineering: TJ280.7
- Geothermal heating
  - Heating of buildings: TH7416+
- Geothermal power plants
  - Environmental effects: TD195.G46
- Geothermal space heating of buildings: TH7417
- Germanium
  - Chemical technology: TP245.G5
  - Engineering materials: TA480.G4
  - Metallurgy: TN799.G4
  - Ore deposits and mining: TN490.G4
- Gift wrapping
  - Decorative crafts: TT871.5
- Gilding
  - Handicrafts: TT300+
  - Metal arts and crafts: TT382.8
  - Metal finishing: TS715
- Gimp: TR267.5.G56
  - Silk manufactures: TS1687

## INDEX

- Gin
  - Distilled liquors: TP607.G4
- Ginger
  - Cooking: TX819.G53
- Ginning
  - Cotton manufactures: TS1585
- Girders
  - Bridge engineering: TG350+
  - Hoisting machinery: TJ1367
- Girders, Metal
  - Engineering and construction: TA492.G5
- Girders, Plate
  - Structural engineering: TA660.P59
- Girdles
  - Clothing manufacture: TT677
- Girls
  - Clothing: TT562
  - Handicrafts: TT171
  - Photographic portraits: TR681.G5
- Glamour photography: TR678
- Glass
  - Chemical technology: TP785+
  - Electronics: TK7871.15.G5
  - Engineering materials: TA450
  - Fire testing: TH9446.5.G55
  - Insulating material: TK3441.G5
  - Motor vehicle construction materials: TL240.5.G56
  - Packaging materials: TS198.3.G5
  - Reinforced plastics: TP1177.5.G5
  - Waste disposal: TD799
- Glass and glassmaking: TP845+
- Glass-ceramic pipe
  - Glassware: TP867.3
- Glass construction
  - Building construction: TH1560
- Glass craft: TT298
- Glass engraving
  - Handicrafts: TT298
- Glass fiber: TS1549.G5
- Glass fiber industry
  - Waste control: TD899.G47
- Glass fibers
  - Glassmaking: TP860.5
- Glass flowers
  - Decorative arts: TT891.3
- Glass forming
  - Handicrafts: TT298
- Glass manufacture
  - Energy conservation: TJ163.5.G55
  - Environmental effects: TD195.G57
- Glass objects
  - Glassmaking: TP865+
- Glass painting
  - Handicrafts: TT298
- Glass recycling
  - Glassmaking: TP859.7
- Glass shot peening
  - Manufactures: TS207.3.P44
- Glass trade
  - Fire prevention and extinction: TH9445.G54
- Glassblowing
  - Glassmaking: TP859
- Glassware
  - Glassmaking: TP865+
- Glazed brick
  - Brickmaking: TP832.G6
- Glazes
  - Ceramic decoration: TP823
  - Ceramic technology: TP812.A1+
  - Pottery craft: TT922
- Glazing
  - Building construction: TH8251+
- Gliders: TL760+
  - Design and construction: TL762
  - Equipment: TL766
  - Heavier-than-air craft: TL670.5
  - Launching: TL765
  - Operation: TL765
- Gliders, Model: TL774
- Gliding: TL760+
- Global Positioning System, Satellite
  - component of the: TL798.N3
- Global system for mobile communications: TK5103.483
- Glove boxes
  - Nuclear engineering: TK9151.7
- Gloves
  - Clothing manufacture: TT666
  - Manufactures: TS2160
- Glow lamps
  - Electric lighting: TK4382

## INDEX

- Glucose
  - Sugars and syrups: TP414
- Glucosides
  - Chemical technology: TP248.G6
- Glue
  - Aeronautics: TL699.G6
  - Organic chemical industries: TP967+
- Glutamate
  - Cooking: TX819.G55
- Glutamic acid
  - Chemical technology: TP248.G65
- Gluten
  - Cooking: TX809.G55
  - Food constituent: TX553.G47
- Glycerin
  - Organic chemical industries: TP973
- Glycoconjugates
  - Biotechnology: TP248.65.G49
- Glycols
  - Hazardous substance disposal: TD1066.G48
- Glyphosate
  - Water pollutants: TD427.G55
- Gmail (Electronic mail system):
  - TK5105.74.G55
- Goat meat
  - Cooking: TX749.5.G63
- Goffering machines: TJ1530
- Goggles for air pilots: TL697.G6
- Gold
  - Assaying: TN580.G6
  - Chemical technology: TP245.G6
  - Metallography: TN693.G6
  - Ore dressing and milling: TN538.G64
  - Prospecting: TN271.G6
- Gold and silver
  - Metallurgy: TN760+
  - Ore deposits and mining: TN410+
- Gold dredging: TN422
- Gold fiber: TS1549.G6
- Gold industry
  - Environmental effects: TD195.G64
  - Waste control: TD899.G63
- Gold mines and mining
  - Water pollution: TD428.G64
- Gold ore deposits and mining: TN420+
- Gold ores
  - Assaying: TN580.G6
- Gold pens
  - Stationery: TS1265
- Gold plating
  - Electroplating: TS678
- Gold thread
  - Embroidery: TT777
- Gold work
  - Manufactures: TS720+
- Golf carts: TL484
- Golf courses
  - Environmental effects: TD195.G66
- GoLive CyberStudio
  - Web authoring software: TK5105.8885.G64
- Google: TK5105.885.G66
- Google Chrome: TK5105.883.G66
- Gourd craft
  - Decorative crafts: TT873.5
- Government and industrial laboratories
  - Chemical technology: TP187+
- Government operation of airports:
  - TL725.3.G6
- Government policy
  - Radioactive waste disposal: TD898.14.G68
- Governors
  - Building gas supply: TH6875
  - Diesel engines: TJ799
  - Machinery: TJ254
  - Machinery exclusive of prime movers: TJ1055
  - Steam engines: TJ550+
- Grades
  - Railway construction: TF243
- Grading
  - Dressmaking: TT520
  - Lumber: TS825
  - Men's tailoring: TT590
  - Production management: TS156.25
- Graf Zeppelin (Airship): TL659.G7
- Grain
  - Manufactures: TS2120+
  - Moisture: TS2149
- Grain elevators
  - Building construction: TH4461

## INDEX

- Grain elevators
  - Dust removal: TH7697.G67
  - Fire prevention and extinction: TH9445.G7
  - Noise control: TD893.6.G7
  - Photography: TR739.6
- Grain-handling machinery
  - Conveying machinery: TJ1415+
- Graining
  - Wood finishing: TT330
- Grandmothers
  - Photographic portraits: TR681.G73
- Granite: TN970
- Granite brick
  - Brickmaking: TP832.G7
- Granite plants
  - Dust removal: TH7697.G7
- Granola
  - Cooking: TX809.G7
- Granular flow
  - Applied fluid mechanics: TA357.5.G47
- Granulation
  - Biotechnology: TP248.25.G7
- Grape juice
  - Unfermented: TP560
- Grapefruit
  - Cooking: TX813.G73
- Grapes
  - Cooking: TX813.G74
  - Food values: TX558.G6
- Graphene
  - Engineering materials: TA455.G65
- Graphic analysis
  - Industrial engineering: T57.4
- Graphic methods
  - Engineering mathematics: TA337+
- Graphic statics
  - Bridge engineering: TG270
  - Machinery: TJ235
  - Structural engineering: TA640.6
- Graphics, Engineering: T351+
- Graphite
  - Engineering materials: TA455.G7
  - Industrial electrochemistry: TP261.G7
  - Mining engineering: TN845
  - Nuclear engineering: TK9185.2.G73
- Graphite
  - Prospecting: TN271.G7
- Grass heating
  - Convective heating: TH7458.G7
- Grass rugs
  - Floor covering: TS1779.G7
- Grass stoves
  - Convective heating: TH7458.G7
- Grasswork
  - Decorative crafts: TT876.3
- Grate frames
  - Building construction: TH7433
- Grate heating with coal: TH7428+
- Grate shakers
  - Furnaces: TJ347
- Grates
  - Furnaces: TJ322+
  - Local heating: TH7429+
- Gratings
  - Building design and construction: TH2273
- Gravel
  - Composition roofing: TH2451
  - Engineering materials: TA455.G73
  - Mining engineering: TN939
  - Sidewalks: TE283
  - Unpaved roads: TE233
- Gravel industry
  - Dust removal: TH7697.S3
  - Environmental effects: TD195.S3
- Gravity
  - Mountain railways: TF686
- Gravity environments, Reduced
  - Applied fluid mechanics: TA357.5.R44
- Gravity systems
  - Low-pressure steam heating: TH7571
- Grease separators
  - Low-pressure steam heating: TH7578.G7, TH7578.V3
- Grease traps
  - Kitchen plumbing: TH6512
- Greek Americans
  - Nutrition: TX361.G74
- Green chemistry
  - Chemical engineering: TP155.2.E58

## INDEX

- Greenhouse gases
  - Air pollutants: TD885.5.G73
  - Chemical technology: TP244.G73
- Greens
  - Cooking: TX803.G74
- Greeting card craft
  - Decorative crafts: TT872
- Grillages
  - Structural engineering: TA660.G7
- Grilles
  - Building construction: TH8581+
- Grinding
  - Chemical technology: TP156.S5
  - Optical instruments: TS517
- Grinding tools
  - Machine shops: TJ1280+
- Grindstones
  - Abrading machinery: TJ1293
- Groats
  - Food values: TX558.G67
- Grooving machines
  - Machine shops: TJ1210
- Grotesque
  - Photography: TR686
- Ground control
  - Mining: TN288+
- Ground controlled approach
  - Aeronautical navigation equipment: TL696.L33
- Ground cushion
  - Aerodynamics: TL574.G7
- Ground effect
  - Aerodynamics: TL574.G7
- Ground penetrating radar: TK6592.G7
- Ground source heat pump systems: TH7417.5
- Ground-speed indicator
  - Aeronautical navigation: TL696.G7
- Ground support
  - Mining: TN288+
- Ground support systems
  - Astronautics: TL4000+
- Ground transportation
  - Astronautics: TL4050
- Grounding
  - Electric power: TK3227
- Groundwater
  - Petroleum geology: TN870.515
  - Pollution: TD426+
  - Recharge: TD765
  - Water supply: TD403+
- Groupers
  - Cooking: TX748.G74
- Grouting
  - Earthwork: TA755
- Guarapo
  - Fermented beverage: TP588.G8
- Guardrails
  - Railway construction: TF268
- Guava
  - Cooking: TX813.G83
- Guidance and control systems
  - Space vehicles: TL3025+
- Guidance systems
  - Aeronautical instruments: TL589.4+
  - Rockets: TL784.C63
  - Space vehicles: TL3250+
- Guideways
  - High speed ground transportation: TF1490
- Gum-biochromate
  - Photography: TR445
- Gum plastics: TP1180.G8
- Gums and resins
  - Organic chemical industries: TP977+
- Gums and resins industry
  - Waste control: TD899.G85
- Gums and resins, Synthetic
  - Aeronautics: TL699.G85
- Guncotton
  - Explosives: TP276
- Gunite: TA446
- Gunn diodes
  - Semiconductors: TK7871.89.G84
- Gunn effect devices
  - Electronics: TK7872.G8
- Gunpowder: TP272
- Guns
  - Manufactures: TS532+
- Gunsmithing: TS535+
- Gunstocks
  - Gunsmithing: TS535.2.G8



## INDEX

Gutta-percha  
  Rubber industry: TS1930  
Gutters  
  Building construction: TH2493  
Guy anchors: TA777  
Gypsies  
  Photographic portraits: TR681.G9  
Gypsum  
  Engineering materials: TA455.G9  
  Mining engineering: TN946  
Gypsum plasters  
  Decorative furnishings: TH8137.G8  
Gypsum products  
  Chemical technology: TP888  
Gypsum wallboard  
  Decorative furnishings: TH8139  
Gyrators  
  Electronics: TK7872.G9  
Gyropilot  
  Aeronautical instruments: TL589.5  
Gyroscopes  
  Mechanical engineering: TJ209  
Gyrotrons: TK7871.79.G95

## H

Haddock  
  Cooking: TX748.H33  
Hafnium  
  Nuclear engineering: TK9185.2.H33  
Hail  
  Aeronautical meteorology: TL557.H3  
Hair bleaching  
  Women: TT973  
Hair conditioners: TP984  
Hair preparations: TP984  
Hair styles  
  Men: TT963  
Hair tinting  
  Women: TT973  
Haircutting: TT970  
Hairdressing: TT950+  
Hairdressing for women: TT972+  
Hairpin lace: TT805.H34  
Hairwork: TT975+  
Halftone process  
  Photography: TR975  
Hall effect devices  
  Electronics: TK7872.H3  
Halloween  
  Cooking: TX739.2.H34  
Halloween decorations  
  Decorative crafts: TT900.H32  
Haloysite  
  Mining engineering: TN948.H3  
Halocarbons  
  Air pollutants: TD887.H3  
Halogen lamps  
  Electric lighting: TK4359.H34  
Halogen organic compounds  
  Environmental pollutants: TD196.H35  
Halogenated hydrocarbons  
  Water pollutants: TD427.H93  
Halogens  
  Chemical technology: TP248.H3  
Ham  
  Cooking: TX749.5.H35  
Hammer peening  
  Manufactures: TS207.3.P44  
Hammers  
  Machine shops: TJ1201.H3  
Hammers, Power  
  Machine shops: TJ1305+  
Hammocks  
  Hand weaving: TT849.2  
Hand cameras  
  Photography: TR260  
Hand fire engines  
  Fire prevention and extinction:  
    TH9374  
Hand-made carpets  
  Textile arts: TT850  
Hand-made rugs  
  Textile arts: TT850  
Hand pumps  
  Fire extinction: TH9363  
  Hydraulic machinery: TJ903  
Hand shears  
  Metal manufactures: TS381  
Hand signals  
  Railway operation: TF625  
Hand spinning  
  Textile arts: TT847

## INDEX

Hand stamps  
  Manufactures: TS1920  
Hand weaving  
  Textile arts: TT848+  
Hand-woven products  
  Wood products: TS913  
Handbags  
  Clothing manufacture: TT667  
Handcuffs  
  Locksmithing: TS531  
Handguns  
  Manufactures: TS537  
Handicrafts: TT1+  
Handicrafts for girls: TT171  
Handling characteristics  
  Airplanes: TL671.4  
  Motor vehicle dynamics: TL245.5  
Handloading ammunition: TS538.3  
Handlooms  
  Hand weaving: TT848.5  
Handmade  
  Paper types: TS1124.5  
Handrail joinery  
  Building construction: TH5675+  
Handtools: TJ1195+  
Hangars  
  Airports: TL730+  
Hangers  
  Machinery: TJ1065  
Hanging burlap  
  Wall decoration: TH8471  
Hanukkah  
  Cooking: TX739.2.H35  
Hanukkah decorations  
  Decorative crafts: TT900.H34  
Harbor engineering: TC352+  
Harbors  
  Electric power: TK4035.H3  
  Hydraulic engineering: TC203+  
Hard-facing  
  Welding: TS227.3  
Hard materials  
  Hardness properties and tests:  
    TA418.45  
Hard water: TD374  
Hardanger  
  Drawnwork: TT787

Hardness  
  Water quality: TD374  
Hardness properties and tests:  
  TA418.42  
Hardware  
  Metal manufactures: TS399.2+  
Hardware description languages  
  Electronics: TK7885.7  
Hardwoods  
  Woodpulp industry: TS1176.4.H3  
Harley-Davidson motorcycle: TL448.H3  
Harmful environments, Packaging for  
  protection from: TS198.7+  
Harness  
  Leather industries: TS1030+  
Harness hardware  
  Manufactures: TS1035  
Harrows  
  Agricultural machinery: TJ1482  
Harvesters  
  Agricultural machinery: TJ1485  
Hasselblad camera  
  Photography: TR263.H3  
Hatchways  
  Building construction: TH2491  
Hats  
  Manufactures: TS2180+  
Hauling tests  
  Highway engineering: TE450  
Hay  
  Food values: TX558.H2  
Hayboxes  
  Cooking: TX831  
Hazardous substances  
  Disposal: TD1020+  
  Fire prevention and extinction:  
    TH9446.H38  
  Industrial safety: T55.3.H3  
  Soil pollutants: TD879.H38  
  Water pollutants: TD427.H3  
Hazardous waste management industry  
  Environmental effects: TD195.H39  
Hazardous waste sites: TD1052  
Hazardous waste treatment facilities:  
  TD1054  
Hazardous wastes  
  Sewage disposal: TD758.5.H39

## INDEX

- Hazardous wastes
  - Soil pollutants: TD879.H38
- Hazelnuts
  - Cooking: TX814.2.H39
  - Food processing and manufacture: TP439.5.H39
- Head resistance
  - Aerodynamics: TL574.D7
- Head-up displays
  - Aeronautical instruments: TL589.35.H42
- Headlights
  - Electric railways: TF940
  - Locomotives: TJ668
- Headphones
  - Electroacoustics: TK5983.5
- Health
  - Motor vehicle drivers: TL152.3+
- Health facilities
  - Fire prevention and extinction: TH9445.H7
- Health monitoring
  - Structural analysis: TA656.6
- Heap leaching
  - Hydrometallurgy: TN688.3.H4
- Hearses: TL235.8
- Heat
  - Environmental pollutants: TD196.H4
  - Mechanical engineering: TJ260
  - Power source: TJ260
- Heat engineering: TJ255+
- Heat engines: TJ255+
  - Theory: TJ265
- Heat exchangers: TJ263+
  - Ventilation of buildings: TH7683.H42
- Heat pipes: TJ264
  - Airplanes: TL697.H4
- Heat pollution
  - Water pollutants: TD427.H4
- Heat pump systems
  - Central heating: TH7638
- Heat pumps
  - Mechanical engineering: TJ262
- Heat resistant alloys
  - Engineering materials: TA485
  - Metallurgy: TN700
  - Powder metallurgy: TN697.H4
- Heat resistant materials: TA418.26
- Heat resistant metals
  - Metallography: TN693.H4
- Heat resistant steel
  - Engineering and construction: TA479.H43
- Heat sinks
  - Electronics: TK7872.H4
- Heat transfer media
  - Chemical technology: TP159.H4
- Heat transmission
  - Petroleum pipelines: TN879.57
- Heat transmission through boiler tubes: TJ297
- Heat treatment
  - Metallurgy: TN758.3
  - Steel metallurgy: TN751+
- Heat treatment of metals: TN672
- Heat utilization, Waste
  - Municipal refuse: TD796.2
- Heating
  - Airplanes: TL681.H4
  - Buildings: TH7201+
  - Chemical technology: TP363
  - Prisons: TH7392.P8
  - Railway equipment: TF445+
  - Transportation engineering: TA1280
- Heating and ventilation
  - Building construction: TH7005+
  - Motor vehicles: TL271+
- Heating engineering
  - Building construction: TH7121+
- Heating equipment
  - Fire prevention and extinction: TH9445.H4
- Heating from central stations
  - Building construction: TH7641+
- Heating, Local
  - Heating and ventilation: TH7418+
- Heating mains
  - Building construction: TH7643
- Heating of metals
  - Manufactures: TS209
- Heating pipes
  - Building construction: TH7643
- Heating plants
  - Air pollution: TD888.H43

## INDEX

- Heating plants
  - Energy conservation: TJ163.5.H4
- Heating regenerators
  - Jet engines: TL709.5.H42
- Heating systems
  - Hot water supply plumbing: TH6552+
- Heavier-than-air craft: TL669+
- Heavy elements
  - Environmental pollutants: TD196.H43
- Heavy metals
  - Air pollutants: TD887.H4
  - Assaying: TN580.H43
  - Effect on food: TX572.H4
  - Environmental pollutants: TD196.M4
  - Sewage disposal: TD758.5.H43
  - Soil pollutants: TD879.H4
  - Water pollutants: TD427.M44
- Heavy minerals
  - Prospecting: TN271.H43
- Heavy water reactors
  - Nuclear engineering: TK9203.H4
- Hedebo embroidery: TT778.H43
- Height indicator
  - Aeronautical navigation: TL696.H4
- Heights
  - Industrial safety: T55.3.H45
- Helical gears
  - Mechanical movements: TJ192
- Helicopters: TL716+
- Heliogravure
  - Photography: TR980
- Heliotype
  - Photography: TR937
- Heliports: TL725.5
- Helium
  - Chemical technology: TP245.H4
  - Lighter-than-air craft fuel: TL666
- Helium in natural gas: TN883
- Hell Gate
  - Hydraulic engineering: TC192
- Helmet-mounted displays
  - Aeronautical instruments: TL589.35.H44
- Helmets
  - Aeronautics: TL697.H44
  - Plastic: TP1185.H4
- Helmets, Safety
  - Industrial safety: T55.3.S23
- Hematite
  - Ore deposits and mining: TN402.H4
- Hemp
  - Cooking: TX814.5.H45
  - Paper manufacture: TS1109
  - Textile fiber: TS1544.H4
- Hemp industry: TS1700+
- Hemp seed oil
  - Chemical technology: TP684.H46
- Herbicides
  - Chemical technology: TP248.H36
  - Environmental pollutants: TD196.H47
  - Soil pollutants: TD879.H47
  - Water pollutants: TD427.H46
- Herbs
  - Cooking: TX819.H4
- Hermes (Artificial satellite):
  - TK5104.2.H46
- Herring
  - Cooking: TX748.H45
- Heuristic programming
  - Industrial engineering: T57.84
- Hexachlorethane
  - Chemical technology: TP248.H4
- Hexane
  - Air pollutants: TD887.H46
- Hexazinone
  - Water pollutants: TD427.H49
- Hexone
  - Chemical technology: TP248.H43
- Hexylene glycol
  - Air pollutants: TD887.H48
- Hides
  - Leather industries: TS967
- Hierarchical routing
  - Computer networks: TK5105.54873.H54
- High altitude platform systems:
  - TK7871.67.H54
- High altitudes
  - Industrial safety: T55.3.H45
- High definition television: TK6679
- High definition video recording: TR862
- High dynamic range imaging
  - Photography: TR594

## INDEX

- High energy forming
  - Metal manufactures: TS256
- High fidelity systems
  - Amateurs' manuals: TK9968
  - Electronics: TK7881.7
- High gravity
  - Testing of materials: TA417.7.H53
- High performance liquid chromatography
  - Biotechnology: TP248.25.H54
- High power lasers
  - Applied optics: TA1695.5
- High pressure
  - Biotechnology: TP248.25.H56
  - Food preservation: TP371.75
- High-pressure hot water heating (with coil boilers): TH7530+
- High school students
  - Nutrition: TX361.H53
- High solids coatings
  - Chemical technology: TP945
- High-speed aeronautics: TL551.5
- High speed ground transportation
  - Railroad engineering: TF1300+
- High-speed photography: TR593
- High speed telegraph system: TK5523
- High technology industries
  - Environmental effects: TD195.H54
- High temperature
  - Testing of materials: TA417.7.H55
- High tension A.C.
  - Dynamolectric machinery: TK2828
- High tension A.C. systems
  - Electrical engineering: TK3144
- High voltage photography: TR760
- Highway bridges: TG425
- Highway design: TE175
- Highway engineering: TE1+
- Highway engineering management: TE195
- Highway research: TE192
- Hindenberg (Airship): TL659.H5
- Hinges
  - Cement and concrete construction: TA682.3
- Hiring a contractor
  - House construction: TH4815.4
- Hispanic Americans
  - Nutrition: TX361.H57
- Hispano-Suiza aircraft engines: TL703.H5
- Historic buildings
  - Fire prevention and extinction: TH9445.M8
- Historic documents
  - Photography: TR825
- Hmong Americans
  - Nutrition: TX361.H62
- Hoffman's kiln: TP842.H7
- Hoisting machinery
  - Electric driving: TK4059.H64
  - Electric power: TK4035.H6
  - Internal combustion engines: TJ793.3
  - Mechanical engineering: TJ1350+
- Hoists
  - Hoisting machinery: TJ1383
  - Mine transportation: TN339+
- Holding patterns
  - Airplanes: TL711.H65
- Holidays
  - Cooking: TX739+
  - Decorations: TT900.H6
- Hollow brick
  - Brickmaking: TP832.H7
- Hollow earthenware
  - Fire-resistive building construction: TH1083
- Holographic interferometry: TA1555
- Holographic testing
  - Testing of materials: TA417.45
- Holography, Acoustic: TA1550
- Holography, Applied: TA1540+
- Holography, Microwave: TA1552
- Holsters
  - Gunsmithing: TS535.2.H64
- Home accidents and their prevention: TX150
- Home arts
  - Handicrafts: TT697+
- Home arts for women: TT697+
- Home automation
  - Electronics: TK7881.25
- Home-built motorcycles: TL442.7

## INDEX

Home carpentry  
  Building construction: TH5607  
Home computer networks: TK5105.75  
Home earth stations  
  Amateurs' manuals: TK9962  
Home economics: TX1+  
  Elementary education: TX1+  
  Secondary education: TX1+  
Home economics as a profession:  
  TX164  
Home educators  
  Technology: T47  
Home entertainment systems  
  Electronics: TK7881.3  
Home furnishings in metal: TT213  
Home video photography: TR896+  
Home video systems  
  Amateurs' manuals: TK9961  
Homecrafts: TT697+  
Homeless persons  
  Nutrition: TX361.H65  
  Photographic portraits: TR681.H63  
Homes  
  Air conditioning: TH7688.H6  
HomeSite  
  Web authoring software:  
    TK5105.8885.H65  
Homosexuals  
  Photographic portraits: TR681.H65  
Honda motor scooters: TL453.H66  
Honda motorcycle: TL448.H6  
Honey  
  Cooking: TX767.H7  
  Food values: TX560.H7  
Honeycomb structure  
  Structural engineering: TA660.H66  
Hook and ladder trucks  
  Fire prevention and extinction:  
    TH9383  
Hooke's coupling: TJ183  
Hooking  
  Hand-made carpets: TT850  
  Hand-made rugs: TT850  
Hooks  
  Engineering forms: TA492.H6  
Hops  
  Brewing and malting: TP585

Hops  
  Cooking: TX814.5.H66  
Horizontal well drilling  
  Petroleum engineering: TN871.25  
Horn, Articles of  
  Manufactures: TS1050  
Horn craft: TT288  
Hors d'oeuvres  
  Recipes: TX740  
Horse racetracks  
  Environmental effects: TD195.R26  
Horse railroads  
  Railroad antiquities: TF16  
Horse railways  
  Municipal railways: TF830  
Horsehair  
  Textile fiber: TS1548.H6  
  Textile industry: TS1747.H6  
Horsemeat  
  Cooking: TX749.5.H67  
  Food values: TX556.H8  
Horses  
  Nature photography: TR729.H6  
Hose carts  
  Fire prevention and extinction:  
    TH9379  
Hose, Fire  
  Fire extinction: TH9380  
Hose industry  
  Manufactures: TS2301.H7  
Hosiery  
  Clothing manufacture: TT679+  
Hospitality industry: TX901+  
Hospitals  
  Building construction: TH4661  
  Fire prevention and extinction:  
    TH9445.H7  
  Sanitary engineering: TD195.H66  
Hostesses  
  Hotels, clubs, restaurants, etc.:  
    TX930  
Hot air balloons: TL638  
Hot-air engines: TJ765  
Hot blast  
  Blast furnaces: TN715  
Hot peppers  
  Cooking: TX819.H66

## INDEX

- Hot peppers
  - Nutrition: TX401.2.P47
- Hot potato routing
  - Computer networks:
    - TK5105.54873.H68
- Hot rods: TL236.3
- Hot tubs
  - Plumbing: TH6501
- Hot water fixtures of buildings:
  - TH7511+
- Hot water heating of buildings:
  - TH7511+
- Hot water rockets: TL783.8
- Hot water supply
  - Building construction: TH6551+
- Hot water supply systems
  - Plumbing: TH6567
- Hot water tanks
  - Plumbing: TH6564
- Hot weather conditions
  - Cement and concrete construction:
    - TA682.48
- Hot weather cooking: TX829
- Hot working of metals
  - Manufactures: TS209.5
- Hotels: TX901+
  - Business mathematics: TX911.3.M33
  - Electric lighting: TK4399.H7
  - Energy conservation: TJ163.5.H67
  - Environmental effects: TD195.H67
  - Fire prevention and extinction:
    - TH9445.H75
  - Plumbing: TH6515.H8
  - Waste control: TD899.H65
- House
  - Home economics: TX301+
- House buyers' guides
  - Technical aspects: TH4817.5
- House construction contracting:
  - TH4815.4
- House drain
  - Plumbing: TH6642+
- House drainage
  - Plumbing: TH6571+
- House framing
  - Building construction: TH2301+
- House numbers
  - Painting: TT365
- House painting: TT320+
- House sewer
  - Plumbing: TH6641
- House wiring
  - Electric power: TK3285
- Household accounts: TX326.A1+
- Household apparatus: TX298+
- Household appliances
  - Waste disposal: TD799.7
- Household batteries
  - Waste disposal: TD799.8
- Household bookkeeping: TX326.A1+
- Household budgets: TX326.A1+
- Household economics: TX151+
- Household employees
  - Home economics: TX331+
- Household finance: TX326.A1+
- Household moving: TX307
- Household pests: TX325
- Household plumbing
  - Building construction: TH6101+
- Household science
  - Home economics: TX149
- Household utensils: TX298+
- Housekeeping
  - Hotels, clubs, restaurants, etc.:
    - TX928
  - Taverns, barrooms, saloons: TX952+
- Houses
  - Building construction: TH4805+
- Housing developments
  - Building operation and housekeeping:
    - TX960
- Housing for older people
  - Fire prevention: TH9445.A4
- Hovering
  - Aeronautics: TL577
- How to invent
  - Patents: T212
- HTTP
  - Computer network protocols:
    - TK5105.5667
- Hub
  - Aircraft propellers: TL707.H8

## INDEX

- Huckaback
  - Embroidery: TT778.H83
- Huckleberries
  - Cooking: TX813.H83
- Hulls
  - Seaplanes: TL684.2
- Human engineering: TA166+
  - Aeronautics: TL553.6
  - Space environment: TL1500+
- Human engineering in design
  - Motor vehicles: TL250
- Human engineering in industry: T59.7+
- Human environment equipment and testing
  - Space environment: TL1500+
- Human face recognition: TA1653
- Human factors
  - Mechanical engineering: TJ211.49
  - Nuclear engineering: TK9152.14
- Human figure
  - Artistic photography: TR674+
- Human-machine systems: TA167
- Human powered aircraft: TL769
- Humanitarian use of airplanes: TL722.8
- Humidity control
  - Air conditioning: TH7687.8
- Humorous photography: TR679.5
- Humus
  - Water pollutants: TD427.H85
- Hungarian Jewish style cooking:
  - TX724.2.H86
- Hunting fields
  - Alternating-current machinery: TK2715
- Hybrid cars: TL221.15
- Hybrid propellant rockets: TL783.45
- Hybrid vehicles: TL221.15
- Hydrate process
  - Saline water conversion: TD480.3
- Hydrates in natural gas: TN884
- Hydraulic brakes: TJ880
- Hydraulic elevators: TJ1375
- Hydraulic engineering: TC1+
  - Environmental effects: TD195.H93
- Hydraulic equipment
  - Airplanes: TL697.H9
- Hydraulic filling
  - Earthwork: TA750
- Hydraulic fluids: TJ844
  - Fire prevention and extinction: TH9446.H9
- Hydraulic fracturing
  - Petroleum engineering: TN871.255
- Hydraulic instruments: TC177
- Hydraulic jack
  - Lifting machinery: TJ1435
- Hydraulic laboratories: TC158
- Hydraulic machinery: TJ836+
- Hydraulic measurements: TC177
- Hydraulic mining: TN278
  - Gold mining: TN421
- Hydraulic models: TC164+
- Hydraulic motors: TJ855+
- Hydraulic power plants
  - Hydraulic engineering: TC147
  - Mechanical engineering: TJ845+
- Hydraulic presses
  - Lifting machinery: TJ1460
- Hydraulic rams: TJ905
- Hydraulic structures: TC180
  - Earthquake effects: TC181
  - Electric power: TK4035.H9
- Hydraulic surveying
  - Engineering: TA623
- Hydraulics, Environmental: TC163.5
- Hydrazine
  - Chemical technology: TP248.H85
- Hydrocarbons
  - Air pollutants: TD887.H93
  - Chemical technology: TP248.H9
  - Explosives: TP290.H9
  - Metallurgy: TN845+
  - Petroleum products: TP692.4.H9
  - Refrigerants: TP492.82.H93
  - Water pollutants: TD427.H93
- Hydrocarbons, Halogenated
  - Water pollutants: TD427.H93
- Hydrocarbons, Polycyclic aromatic
  - Water pollutants: TD427.H93
- Hydrochloric acid
  - Chemical technology: TP217.H8
- Hydrochloric acid plants
  - Air pollution: TD888.H9



## INDEX

- Hydrocolloids
    - Food additives: TP456.H93
    - Gums and resins: TP979.5.H93
  - Hydrocyanic acid
    - Chemical technology: TP217.H9
  - Hydrodynamic lubrication
    - Mechanical engineering: TJ1073.5
  - Hydrodynamics
    - Hydraulic engineering: TC171+
    - Turbomachinery: TJ267
  - Hydroelectric power production: TK1081+
  - Hydrofluoric acid: TP217.H94
  - Hydrogen
    - Biotechnology: TP248.65.H9
    - Chemical technology: TP245.H9
    - Fire prevention and extinction: TH9446.H96
    - Fuel: TP359.H8
    - Industrial electrochemistry: TP261.H9
    - Lighter-than-air craft fuel: TL666
  - Hydrogen automobiles: TL229.H9
  - Hydrogen-ion concentration
    - Chemical engineering: TP156.H78
  - Hydrogen sulfide
    - Air pollutants: TD885.5.H9
  - Hydrogenation
    - Chemical engineering: TP156.H8
    - Petroleum refining: TP690.45
  - Hydrolases
    - Biotechnology: TP248.65.H93
  - Hydrolysis
    - Chemical engineering: TP156.H82
  - Hydrometallurgy: TN688+
  - Hydronic systems
    - Building construction: TH7467+
  - Hydrophones
    - Electroacoustics: TK5987
  - Hydrostatic lubrication
    - Mechanical engineering: TJ1073.5
  - Hydrostatics
    - Hydraulic engineering: TC165+
  - Hydroxylation
    - Chemical engineering: TP156.H85
  - Hygienic shoes
    - Boot and shoemaking: TS1015
  - Hyperboloid structures
    - Structural engineering: TA660.H97
  - Hypereutectic alloys
    - Engineering and construction: TA483.3
  - Hypersonic aerodynamics: TL571.5
  - Hypersonic planes: TL683.5
  - Hypochlorite treatment
    - Water purification: TD463
  - Hypochlorites
    - Environmental pollutants: TD196.H94
  - Hypoeutectic alloys
    - Engineering and construction: TA483.3
- I
- I-Beams, Steel-wood
    - Structural engineering: TA660.S67
  - IBM Personal Computer: TK7889.I26
  - IBM Token-Ring Network: TK5105.8.I24
  - Ice bridges
    - Highway engineering: TE247
  - Ice building construction: TH1431
  - Ice control
    - Streets: TD868+
  - Ice cream sandwiches: TX796.I45
  - Ice cream scoops
    - Cooking: TX657.I24
  - Ice creams and ices
    - Cooking: TX795.A1+
  - Ice crossings
    - Highway engineering: TE247
  - Ice cutting and storage: TP498
  - Ice loads
    - Structural analysis: TA654.4
  - Ice mechanics: TA714.5
  - Ice prevention
    - Aeronautical meteorology: TL557.I3
  - Ice roads
    - Highway engineering: TE247
  - Icehouses (Commercial)
    - Building construction: TH4481
  - Icemaking
    - Chemical technology: TP490+

## INDEX

### ICES

Computer-aided engineering:  
TA345.5.I2

### Identification

Aircraft communication equipment:  
TL694.I4

Radio frequencies: TK6570.I34

### Identification marks

Aircraft: TL603

### Identification symbols

Aircraft: TL603

### IEEE 802.11

Computer network protocols:  
TK5105.5668

### IFF

Aircraft communication equipment:  
TL694.I4

### Ignition

Internal combustion engines: TJ787+

### Ignition devices

Aircraft engines: TL702.I5

Building gas supply: TH6885+

Gasoline automobiles: TL213

Motor vehicles: TL272

### Illiac computer: TK7889.I5

### ILLINET: TK5105.8.I44

### Illuminating industries (Nonelectric): TP700+

### Illumination

Building construction: TH7700+

### Illustration, Technical: T11.8

### Image compression: TA1638

### Image converters and intensifiers

Electronics: TK8316

### Image processing

Optical data processing: TA1637+,  
TA1637

### Image science

Photography: TR222

### Image segmentation: TA1638.4

### Image stabilization

Applied optics: TA1655

### Image transmission

Electrical engineering: TK5105.2

### Imaginary voyages

Astronautics: TL788.7

### Imaging systems

Electronics: TK8315+

### Imhof tanks

Sewage purification: TD750

### Imitation leathers

Manufactures: TS1045+

### Immigrants

Photographic portraits: TR681.I54

### Immobilized cell processes

Biotechnology: TP248.25.I55

### Immobilized enzymes

Biotechnology: TP248.65.I45

### Immobilized proteins

Biotechnology: TP248.65.I47

### Immunoassay

Food analysis: TX549

### Immunoglobulins

Biotechnology: TP248.65.I49

### Impact loading

Structural analysis: TA654.2

### Impact strength

Time-dependent properties and tests:  
TA418.34

### Impedance meters and measurements

Electric meters: TK315

### Impellers

Turbines: TJ267.5.I6

### Impregnated wood

Fire-resistive building construction:  
TH1073

### Improved passenger train (IPT)

High speed ground transportation:  
TF1540

### Impurities

Food: TX562.2+

### In-plant transportation

Materials handling: TS180.6+

### In situ processing (Mining): TN278.3

### In situ remediation

Environmental pollution: TD192.8

### Incandescent electric lighting: TK4341+

### Incandescent gas lighting

Building construction: TH7953+

### Incandescent lamps: TK4351+

Tests of efficiency: TK4367

### Incineration

Environmental effects: TD195.I52

## INDEX

- Incineration
  - Hazardous substance disposal: TD1062
  - Industrial and factory wastes: TD897.843
  - Municipal refuse: TD796+
  - Radioactive waste disposal: TD898.175
  - Sewage disposal: TD770+
- Incinerators
  - Municipal refuse: TD796+
  - Waste disposal: TD803
- Indene resins
  - Plastics: TP1180.I5
- Independent furnaces
  - Hydronic systems: TH7475
- Indexing tables
  - Machine tools: TJ1185.5
- Indian motorcycle: TL448.I5
- Indian Ocean submarine telegraph: TK5615
- Indicators
  - Radar: TK6590.I5
  - Steam engines: TJ478
- Indicators, Technology: T174.2
- Indigenous peoples
  - Photographic portraits: TR681.I58
- Indigo
  - Dyes: TP923+
- Indirect radiators
  - Hydronic systems: TH7492+
- Indium
  - Chemical technology: TP245.I5
  - Engineering materials: TA480.I53
  - Metallurgy: TN799.I5
  - Mining and metallurgy: TN490.I6
- Indium arsenide
  - Electronics: TK7871.15.I52
- Indium phosphide
  - Electronics: TK7871.15.I53
- Indoor air pollution: TD883.17
- Indoor air quality: TD883.17
- Indoor positioning systems
  - Wireless communication systems: TK5103.48323
- Indoor wiring: TK3271+
- Induction
  - Alternating-current motors: TK2785
- Induction hardening
  - Steel metallurgy: TN752.I5
- Induction logging: TN269.55
- Induction telegraph systems: TK5550
- Inductors
  - Electronics: TK7872.I63
- Induline
  - Textile dyes: TP918.I5
- Industrial accident prevention: T55+
- Industrial accidents and biorhythms
  - Industrial safety: T55.3.B56
- Industrial archaeology
  - Technology: T37
- Industrial arts training
  - Handicrafts: TT161+
- Industrial buildings
  - Heating and ventilation: TH7392.I53
  - Plant engineering: TS186
  - Sanitary engineering: TH6057.I53
- Industrial cinematography
  - Photography: TR894
- Industrial design
  - Product engineering: TS171+
- Industrial design coordination
  - Patents: T342
- Industrial design study and teaching: TS171.44
- Industrial directories: T11.95+
- Industrial districts
  - Environmental effects: TD195.I54
- Industrial ecology
  - Inventory control: TS161
- Industrial education
  - Secondary education: T61+
- Industrial electrochemistry: TP250+
  - Environmental effects: TD195.E43
- Industrial electronics: TK7881
- Industrial engineering: T55.4+
- Industrial engineers: T56.3
- Industrial fabrics
  - Manufactures: TS1770.I53
- Industrial feeding
  - Food service: TX946.5.A1+
- Industrial furnaces
  - Heating engineering: TH7140+

## INDEX

- Industrial heating
  - Building construction: TH7121+
- Industrial instrumentation: TA165
- Industrial landscape architecture
  - Plant grounds: TS190.5
- Industrial painting
  - Handicrafts: TT300+
- Industrial photochemistry: TP249.5
- Industrial photography: TR706
- Industrial plants
  - Building construction: TH4511+
- Industrial power trucks: TL296
- Industrial radiation chemistry: TP249
- Industrial radiochemistry: TP249
- Industrial railways: TF677
- Industrial reproduction
  - Photography: TR900+
- Industrial research: T175+
- Industrial robots: TS191.8
- Industrial safety: T55+
- Industrial sanitation: TD895+
- Industrial vehicles and trucks: TL223
- Industrial wastes: TD896+
- Industrial water supply: TD201+
- Industrial weaving
  - Manufactures: TS1490+
- Industrial woodworking
  - Manufactures: TS840+
- Industrialized building
  - Building construction: TH1000
- Industries
  - Environmental effects: TD194+
- Industry and meteorology: TA198
- Inelastic properties and tests:
  - TA418.14+
- Inertial navigation
  - Air navigation: TL588.5
- Inertial navigation systems
  - Space vehicles: TL3252
- Inertial separation
  - Dust removal: TH7695.I52
- Infants
  - Photographic portraits: TR681.I6
- Inflammable gases
  - Fire prevention and extinction:
    - TH9446.I475
- Inflammable liquids
  - Chemical technology: TP361
  - Fire prevention and extinction:
    - TH9446.I5
- Inflammable materials
  - Fire prevention and extinction:
    - TH9446.I47+
- Inflation machinery
  - Lighter-than-air craft: TL666
- Influence lines
  - Structural engineering: TA640.8
- Influence of altitude
  - Aircraft engines: TL701.2
- Information centers
  - Mechanical engineering: TJ160.5
  - Technology: T10.6
- Information display systems
  - Electrical engineering: TK5103.5
  - Electronics: TK7882.I6
- Information modeling
  - Building construction: TH438.13
- Information services
  - Aeronautics: TL564
  - Building construction: TH216
  - Environmental protection: TD169.5
  - Metallurgy: TN675.4
  - Textile industries: TS1474
  - Water supply: TD211
- Information systems
  - Industrial technology: T58.5+
- Information technology
  - Industrial engineering: T58.5+
- Infrared detectors: TA1573
- Infrared examinations
  - Testing of materials: TA417.5
- Infrared heating
  - Electric heating: TK4635
- Infrared lasers
  - Applied optics: TA1696
- Infrared photography: TR755
- Infrared sensors: TA1573
- Infrared spectroscopy
  - Food analysis: TX547.2.I53
- Infrared technology
  - Applied optics: TA1570+
- Ingenious mechanisms
  - Mechanical engineering: TJ210.2+

## INDEX

Inhomogeneous materials  
  Engineering materials: TA418.9.I53  
Injection blow molding  
  Plastics: TP1151.I55  
Injectors  
  Steam boilers: TJ387  
Ink impression  
  Telegraph: TK5546  
Ink manufacture  
  Chemical technology: TP946+  
Inking receiving systems and instruments  
  Telegraph: TK5546  
Inks for recording instruments:  
  TP949.95  
Inland navigation  
  Hydraulic engineering: TC601+  
Inlets for air  
  Jet engines: TL709.5.I5  
Innovations, Technological: T173.8  
Inorganic chemicals  
  Chemical technology: TP213+  
Inorganic compounds  
  Air pollutants: TD887.I56  
  Soil pollutants: TD879.I55  
  Water pollutants: TD427.I55  
Inorganic fibers  
  Textile fibers: TS1549.A1+  
Input-output equipment  
  Computer engineering: TK7887.5+  
INSAT (Artificial satellite): TK5104.2.I25  
Insect cell biotechnology: TP248.27.I56  
Insect pests in wood: TA423.6+  
Insect-resistant packaging: TS198.I58  
Insect waxes  
  Chemical technology: TP677+  
Insecticides  
  Chemical technology: TP248.I57  
  Fire prevention and extinction:  
    TH9446.I55  
Insects  
  Cooking: TX746  
  Nature photography: TR729.I6  
  Nutrition: TX388.I5  
Inserts  
  Reinforced concrete construction:  
    TA683.45

Insignia  
  Aeronautics: TL538  
Insignia industry: TS2301.I6  
Inspection  
  Aeronautical navigation equipment:  
    TL696.I5  
  Aircraft communication equipment:  
    TL694.I5  
  Aircraft engines: TL701.5  
  Airplanes: TL671.7  
  Fire prevention and extinction:  
    TH9176  
  Heating of buildings: TH7339  
  Locomotives: TJ685+  
  Lumber: TS825  
  Nuclear engineering: TK9152.15,  
    TK9152.16  
  Plumbing: TH6239  
  Production management: TS156.2+  
  Railway equipment: TF361  
  Railway operation: TF537  
  Sewers: TD719  
  Steam boilers: TJ298  
Inspection of workmanship  
  Management of engineering works:  
    TA191  
Inspectors' manuals  
  Telegraph wiring: TK5445  
  Telephone wiring: TK6345  
Instagram: TR267.5.I57  
Installation  
  Aircraft engines: TL701.4  
  Electric lighting: TK4255  
  Industrial equipment: TS191.3  
Instant photography: TR269  
Instantaneous photography: TR592  
Institutional cooking: TX820  
Instrument board  
  Airplanes: TL681.I6  
Instrument flying  
  Airplanes: TL711.B6  
Instrument landing systems  
  Aeronautical navigation equipment:  
    TL696.L33  
Instrument manufacture: TS500+  
Instruments  
  Aeronautical engineering: TL589+

## INDEX

- Instruments
  - Aeronautical research: TL567.I6
  - Fermentation industries: TP517
  - Nuclear engineering: TK9178+
  - Photogrammetry: TR696
  - Surveying: TA562+
  - Telegraph: TK5571+
  - Telegraphing: TK5501+
- Instruments for transmitting sound
  - Telephone: TK6401+
- Insulated wires
  - Electric power: TK3331+
  - Testing: TK3335
- Insulating material
  - Electric power: TK3401+
  - Testing: TK3431
- Insulating materials
  - Building construction: TH1715+
- Insulation
  - Building construction: TH1715+
  - Electric power: TK3401+
  - Petroleum pipelines: TN879.57
- Insulators
  - Space vehicles: TL1102.I57
- Intaglio process
  - Photography: TR980
- Intakes for air
  - Jet engines: TL709.5.I5
- Integral equations
  - Engineering mathematics: TA347.I5
- Integrated circuit layout: TK7874.55
- Integrated circuits
  - Amateurs' manuals: TK9966
  - Electronics: TK7874+
- Integrated circuits, Three-dimensional:
  - TK7874.893
- Integrated optics
  - Applied optics: TA1660
- Integrated services digital networks
  - Telecommunication: TK5103.75
- Integrated solid waste management:
  - TD794.2
  - Local: TD788+
- Intelligent control systems
  - Mechanical engineering: TJ217.5
- Intelligent sensors
  - Electronics: TK7871.676
- Intelligent transportation systems
  - Highway engineeri: TE228.3+
- Intensification
  - Photographic negatives: TR299
  - Photographic positives: TR335
- Intensity meters and measurements
  - Electrical engineering: TK331
- Interactive television: TK6679.3
- Interactive video
  - Electronics: TK6687
- Intercepting other aircraft: TL711.I47
- Intercepting sewers: TD711
- Interchanges
  - Highway engineering: TE176+
- Intercommunication systems
  - Electronics: TK7881.5
- Interconnection of power systems
  - Electrical engineering: TK447+
- Interconnects
  - Microelectronics: TK7874.53
- Interface circuits
  - Electronic circuits: TK7868.I58
- Interference
  - Aerodynamics: TL574.I5
  - Aircraft communication equipment:
    - TL694.I6
  - Aircraft propellers: TL706.I6
  - Photographic processing: TR525
- Interferometry, Holographic: TA1555
- Interior decoration
  - Passenger planes: TL685.5.I6
- Interior painting: TT323
- Interior walls
  - Building design and construction:
    - TH2239
- Interior wiring: TK3271+
- Interiors
  - Photographic lighting: TR620
- Interlocking systems
  - Railway operation: TF635
- Intermittent-motion mechanisms
  - Mechanical engineering: TJ181.6
- Internal combustion engines: TJ782+
- Internal gears
  - Mechanical movements: TJ202
- International Business Machines Corporation: TK4101.I5

## INDEX

International Civil Aviation Organization:  
TL500.5  
International cooperation  
Astronautics: TL788.4  
Industrial engineering education:  
T65.3  
Radioactive waste disposal:  
TD898.14.I57  
Technology: T49.5  
Internet  
Chemical engineering: TP186.8  
Engineering: TA158.7  
Handicrafts: TT11  
Motor vehicles: TL11  
Photography: TR11  
Internet access: TK5105.8855  
Internet (Computer network):  
TK5105.875.I57  
Aspects or services: TK5105.8762+  
Internet governance: TK5105.8854  
Internet Relay Chat: TK5105.886  
Internet telephony: TK5105.8865  
Internet videos: TK5105.8867+  
Intersections  
Highway engineering: TE176+  
Interurban cars  
Electric railways: TF920+  
Interurban railways: TF701+  
Intra-airport transportation: TL725.3.I6  
Intranets (Computer networks)  
Electronics: TK5105.875.I6  
Inventions  
History: T14.7+  
Patents: T212  
Inventors  
Biography: T39+  
Patents: T212  
Inventors' manuals: T339  
Inventory control  
Hotels, clubs, restaurants, etc.:  
TX911.3.I5  
Production management: TS160+  
Inverters  
Dynamoelectric machinery: TK2692  
Electronics: TK7872.I65  
Iodine  
Chemical technology: TP245.I6

Ion exchange  
Chemical engineering: TP156.I6  
Sewage disposal: TD757.5  
Ion exchange desalting  
Saline water conversion: TD480.7  
Ion exchange process  
Hydrometallurgy: TN688.3.I65  
Ion exchange resin  
Gums and resins: TP979.5.I6  
Ion implantation  
Metal finishing: TS695.25  
Ion plating  
Metal finishing: TS695.2  
Ion rocket propulsion: TL783.63  
Ion rockets: TL783.63  
iPhoto: TR267.5.I64  
IPSec  
Computer network protocols:  
TK5105.567  
IPT  
High speed ground transportation:  
TF1540  
Iraqi Jewish style cooking: TX724.2.I73  
Iridium  
Chemical technology: TP245.I7  
Irish crochet lace: TT805.I74  
Iron  
Assaying: TN580.I8  
Bridge engineering: TG370  
Chemical technology: TP245.I8  
Electroplating: TS692.I7  
Food constituent: TX553.I75  
Metal manufactures: TS300+  
Ore dressing and milling: TN538.I7  
Prospecting: TN271.I7  
Stairbuilding: TH5667+  
Structural engineering: TA684+  
Iron alloys  
Engineering materials: TA478+  
Metallurgy: TN756+  
Iron and steel  
Building construction: TH1610+  
Engineering materials: TA464+  
Founding: TS228.99+  
Metal manufactures: TS440+  
Metallography: TN693.I7  
Metallurgy: TN701.482+

## INDEX

Iron and steel  
  Powder metallurgy: TN697.I7  
  Railway construction: TF255  
  Trussed bridges: TG380  
Iron furniture  
  Manufactures: TS408  
Iron industry  
  Dust removal: TH7697.I76  
Iron mines and mining  
  Water pollution: TD428.I74  
Iron-on transfer work  
  Textile decoration: TT852.7  
Iron ore deposits and mining: TN400+  
Iron ores  
  Assaying: TN580.I8  
Iron oxide  
  Chemical technology: TP936+  
Iron pipe  
  Sewers: TD686  
Iron roofing  
  Building construction: TH2457  
Iron salts  
  Photographic processes: TR405+  
Iron work  
  Engineering: TA890+  
Ironing  
  Laundry work: TT995  
Ironworking  
  Handicrafts: TT215+  
Ironworks  
  Electric lighting: TK4399.I7  
  Environmental effects: TD195.I76  
Irradiation  
  Food preservation: TP371.8  
  Sewage treatment: TD769.8  
  Water purification: TD476  
Irrigation canals: TC930  
Irrigation engineering: TC801+  
Irrigation flumes and conduits: TC933  
Irrigation projects  
  Management: TC812  
Irrigation pumps: TC929  
IS-IS (Computer network protocols):  
  TK5105.5675  
Isano oil  
  Chemical technology: TP684.I8

iSCSI  
  Computer network protocols:  
    TK5105.5677  
Isinglass industry: TS2301.I8  
ISO 9000 Series standards  
  Quality control standards  
  Production management:  
    TS156.17.I86  
Isochromatic photography: TR453  
Isocyanates  
  Chemical technology: TP248.I8  
Isometric projection  
  Mechanical drawing: T363  
Isopren  
  Chemical technology: TP248.I86  
Isotope separation  
  Chemical engineering: TP156.I7  
Isotopic power generators  
  Electrical engineering: TK2965  
Ivory, Articles of  
  Manufactures: TS1050

## J

Jabber (Electronic mail system):  
  TK5105.74.J32  
Jackets  
  Women's tailoring: TT535  
Jackets for bottles  
  Decorative crafts: TT879.J3  
Jackfruit  
  Cooking: TX813.J33  
Jacquard looms  
  Textile industries: TS1500  
Jacquard weaving  
  Textile industries: TS1500  
Jade  
  Jewelry work: TS755.J34  
  Mineral industries: TN997.J3  
Jails  
  Environmental effects: TD195.P74  
Jakarta Tomcat  
  Web authoring software:  
    TK5105.8885.J34  
Jam  
  Cooking: TX814.5.J35



## INDEX

- Jam
  - Food processing and manufacture: TP441.J3
  - Preservation and storage: TX612.J3
- Janitor service
  - Apartment houses: TX958
  - Household administration: TX339
- Janitors
  - Photographic portraits: TR681.J35
- Japanese paper: TS1130
- Japanning materials
  - Chemical technology: TP942
- JavaServer pages
  - Web authoring software: TK5105.8885.J38
- JBoss
  - Web authoring software: TK5105.8885.J42
- Jelly
  - Food processing and manufacture: TP441.J3
  - Preservation and storage: TX612.J4
- Jerusalem artichoke
  - Sugars and syrups: TP414
- Jet
  - Steam engines: TJ559
- Jet belts: TL717.5
- Jet engines
  - Aeronautics: TL709+
- Jet flying: TL711.J38
- Jet propulsion
  - Aeronautics: TL709+
- Jets
  - Hydrodynamics: TC173
- Jetties
  - River protective works: TC535
- Jettisoning of fuel
  - Airplanes: TL711.J4
- Jewel bearings
  - Mechanical engineering: TJ1073.J4
- Jewelers' catalogs: TS759
- Jewelers' supplies: TS760
- Jewelry
  - Hairwork: TT976
  - Manufactures: TS720+
- Jewelry craft
  - Metalworking: TT212
- Jigs
  - Ore dressing and milling: TN520+
- Jigs and fixtures
  - Machine tools: TJ1187
- Jigsaw work
  - Woodworking: TT190.6
- Job descriptions
  - Hotels, clubs, restaurants, etc.: TX911.3.J65
- Job design
  - Industrial engineering: T60.8
- Joinery
  - Building construction: TH5601+
  - Finish carpentry: TH5662+
- Joining
  - Metals: TS226+
  - Plastics: TP1165
- Joint-wiping
  - Building construction: TH6295
- Joints
  - Building construction: TH2060
  - Cement and concrete construction: TA682.3
  - Concrete roads: TE278.2
  - Pipefitting: TH6293+
  - Reinforced concrete construction: TA683.3
  - Structural engineering: TA660.J64
  - Wooden construction: TA666.5.J64
- Joints, Expansion
  - Structural engineering: TA660.E9
- Joints, Welded (Metal)
  - Engineering materials: TA492.W4
- Jojoba oil
  - Chemical technology: TP684.J64
- Joomla
  - Web authoring software: TK5105.8885.J86
- Journal bearings
  - Machinery: TJ1063
- JPEG (Image compression): TA1638
- Juicer recipes
  - Cooking: TX840.J84
- Jumping balloons: TL632
- Jumping systems
  - Fire prevention and extinction: TH9418

## INDEX

Junction transistors: TK7871.92  
Juniper: TK5105.8.J84  
Junk food  
    Nutrition: TX370  
Junkyards  
    Municipal refuse: TD795.4  
Jupiter (Planet)  
    Flight to: TL799.J8  
Just-in-time systems  
    Production control: TS157.4  
Jute industry: TS1700+  
JXTA  
    Computer network protocols:  
        TK5105.568

## K

Kabobs  
    Cooking: TX834  
Kallitype  
    Photographic processes: TR400  
Kamala  
    Textile dyes: TP925.K35  
Kangaroo meat  
    Food values: TX556.K36  
Kaoliang  
    Distilled liquors: TP607.K3  
Kaolin  
    Prospecting: TN271.K2  
Kapok  
    Textile fiber: TS1747.K3  
Karts: TL236.5  
Kawasaki motorcycle: TL448.K38  
Keel  
    Airships: TL662.K4  
Kefir  
    Beverages: TP565  
Kelp  
    Mining engineering: TN919  
Kenaf  
    Textile fiber: TS1544.A5  
    Woodpulp industry: TS1176.4.K44  
Kenotrons: TK7871.79.K4  
Kentucky rifle: TS536.6.K4  
Kerchiefs  
    Clothing manufacture: TT667.5

Kerosene  
    Fuel: TP359.K47  
    Petroleum products: TP692.4.K4  
Kerosene heaters  
    Convective heating: TH7450.5  
Ketchup  
    Cooking: TX819.K48  
Ketones  
    Chemical technology: TP248.A53  
Kettles  
    Cooking: TX657.K4  
Keys  
    Locksmithing: TS530  
    Telegraph: TK5575  
Keys and keyways  
    Fasteners: TJ1329  
Khaki  
    Dyeing: TP907  
Kilns  
    Clay industries: TP841+  
    Pottery craft: TT924  
Kilns, Lumber: TS837  
Kimberlite  
    Prospecting: TN271.K55  
Kimch'i  
    Cooking: TX806  
Kinematics of machinery  
    Mechanical engineering: TJ175  
Kinetoscope  
    Cinematography: TR885  
Kirlian photography: TR760  
Kirsch  
    Distilled liquors: TP607.K57  
Kit cars: TL240.2  
Kitchen  
    Cooking: TX653+  
Kitchen almanacs  
    Cooking: TX727+  
Kitchen arrangement  
    Cooking: TX655  
Kitchen boiler explosions  
    Plumbing: TH6565+  
Kitchen boilers  
    Plumbing: TH6563  
Kitchen cabinets  
    Woodworking: TT197.5.K57

## INDEX

Kitchen control  
Hotels, clubs, restaurants, etc.:  
TX921  
Kitchen furniture  
Woodworking: TT197.5.K57  
Kitchen plumbing  
Building construction: TH6507+  
Kitchen supports  
Plumbing: TH6563  
Kitchen wastes  
House drainage: TH6661  
Kitchens  
Building design and construction:  
TH3000.K58  
House remodeling: TH4816.3.K58  
Ventilation: TH7684.K5  
Kite balloons: TL635  
Kites  
Aeronautics: TL759+  
Kiwifruit  
Cooking: TX813.K55  
Klystrons: TK7871.74  
Knit goods  
Clothing manufacture: TT679+  
Knit goods industry  
Electric power: TK4035.K58  
Knitted lace: TT805.K54  
Knitting  
Decorative needlework: TT819+  
Knitting machinery  
Clothing manufacture: TT685  
Knitting machines  
Electric driving: TK4059.K55  
Knives  
Cooking: TX657.K54  
Kodak camera  
Photography: TR263.K54  
Koji  
Food additives: TP456.K64  
Konica cameras  
Photography: TR263.K55  
Konnyaku  
Food processing and manufacture:  
TP444.K65  
Korean paper: TS1129  
Kreiselumpen  
Hydraulic machinery: TJ919

Kriging  
Mining engineering: TN272.7  
Krypton  
Chemical technology: TP245.K6  
Kudzu  
Cooking: TX814.5.K83  
Kumiss  
Beverages: TP565  
Kvass  
Fermented beverage: TP588.K86  
Kwanzaa decorations  
Decorative crafts: TT900.K92

## L

L2TP (Computer network protocols):  
TK5105.572  
Labeling  
Bottling: TP659.A1+  
Food processing and manufacture:  
TP374.5  
Packaging: TS196.6+  
Labels  
Wine and winemaking: TP548.5.L32  
Labor productivity  
Hotels, clubs, restaurants, etc.:  
TX911.3.L27  
Industrial engineering: T60.35  
Labor turnover  
Hotels, clubs, restaurants, etc.:  
TX911.3.L3  
Laboratories  
Aeronautics: TL566+  
Air conditioning: TH7688.L3  
Building construction: TH4652  
Fire insurance engineering: TH9237  
Photography: TR550+  
Waste control: TD899.L32  
Laboratories, Assay: TN570+  
Laboratories, Engineering: TA416+  
Laboratories, Metallurgical: TN570+  
Laboratories, Testing  
Engineering: TA416+  
Laboratory machines  
Testing of materials: TA412  
Laboratory manuals  
Astronautics: TL794.3

## INDEX

- Laboratory manuals
  - Chemical technology: TP161
- Lace craft: TT810
- Lace (Machine made)
  - Textile industries: TS1782
- Lacemaking
  - Decorative needlework: TT800+
- Lacquering
  - Metal finishing: TS698
  - Metal finishing arts: TT382.4
  - Painting: TT378
- Lacquers: TP939
- Lactams
  - Chemical technology: TP248.L27
- Lactic acid
  - Chemical technology: TP248.L3
- Lactose
  - Sugars and syrups: TP414
- Ladder trucks
  - Fire prevention and extinction: TH9383
- Ladle metallurgy
  - Steel: TN746
- Lake engineering: TC401+
- Lakes
  - Reclamation: TC975
  - Sewage effluent discharge into: TD763+
  - Water supply source: TD392
- Lamb
  - Cooking: TX749.5.L35
  - Food values: TX556.L3
- Lamborghini automobile: TL215.L33
- Lambretta motor scooters: TL453.L3
- Laminar flow
  - Aerodynamics: TL574.L3
- Laminated materials
  - Aeronautics: TL699.L23
  - Engineering materials: TA418.9.L3
- Laminated metals
  - Electrical engineering: TK454.4.L3
- Laminated plastics: TP1183.L3
- Laminated wood
  - Aeronautics: TL699.W7
  - Manufactures: TS869
- Lampposts
  - Cement manufacture: TP885.L3
- Lampposts
  - Lighting fixtures: TH7970.L35
- Lamps
  - Decorative crafts: TT897.2
  - Lighthouses: TC377
  - Nonelectric illuminating industries: TP746
  - Woodworking: TT197.5.L34
- Lampshades
  - Decorative crafts: TT897
  - Wood products: TS913
- LAN Server (Computer network systems): TK5105.8.L34
- Lancashire steam boiler
  - Mechanical engineering: TJ310
- Land disposal
  - Hazardous substances: TD1064
- Land use
  - Soil pollution: TD880.L35
  - Water pollution: TD428.L35
- Landfill gases
  - Air pollutants: TD885.5.L35
- Landfills, Sanitary
  - Municipal refuse: TD795.7
  - Sewage disposal: TD771
- Landing
  - Airplanes: TL711.L3
- Landing aids
  - Aeronautical navigation equipment: TL696.L3
  - Airports: TL725.3.L2
- Landing fees
  - Airports: TL725.3.L3
- Landing fields: TL725+
- Landing flares
  - Aeronautics: TL697.L3
- Landing gear
  - Airplanes: TL682+
- Landing gear for use on snow
  - Airplanes: TL683.S6
- Landing lights
  - Aircraft: TL691.L3
- Landscape construction by builders: TH380
- Landscape photography: TR660+
- Landscaping: TE177+

## INDEX

- Language
  - Aeronautics: TL564.5
  - Cooking: TX644
- Language, Technical: T11+
- Lantern slides
  - Photography: TR505
- Lanthanum
  - Chemical technology: TP245.L2
- Lapping
  - Cotton manufactures: TS1578
- Lapping tools
  - Machine shops: TJ1280+
- Larch
  - Woodpulp industry: TS1176.4.L3
- Lard
  - Manufactures: TS1980+
- Laser ablation
  - Applied optics: TA1715
- Laser communications systems
  - Engineering: TK5103.6
- Laser-induced fluorescence, Planar
  - Applied fluid mechanics: TA357.5.P58
- Laser peening
  - Manufactures: TS207.3.P44
- Laser welding: TS228.95
- Lasers
  - Aeronautics: TL697.L34
  - Applied optics: TA1671+
- Lasers in engineering: TA367.5
- Laterite
  - Engineering materials: TA455.L3
  - Mining engineering: TN948.L3
- Lathes
  - Machine shops: TJ1218+
- Lathework
  - Handicrafts: TT201+
- Latitude
  - Air navigation: TL588+
- Latrines
  - Sewage disposal: TD775
- Lauhala weaving
  - Decorative crafts: TT877.5
- Launch complexes
  - Location: TL4024
- Launch facilities
  - Astronautics: TL4020+
- Launch vehicles
  - Rockets: TL785.8.L3
- Launching
  - Rockets: TL784.L3
- Launching bases
  - Astronautics: TL4020+
  - Location: TL4024
- Launching complexes
  - Astronautics: TL4020+
- Launching machinery
  - Airports: TL732
- Laundries
  - Plumbing: TH6502+
  - Waste control: TD899.L37
- Laundries, Public
  - Plumbing: TH6518.L3
  - Sanitary engineering: TH6057.L3
- Laundry wastes
  - House drainage: TH6661
- Laundry work: TT980+
- Lautal
  - Aeronautics: TL699.L3
- Lavatories
  - Plumbing: TH6485+
- Lavender
  - Cooking: TX819.L38
- Layettes
  - Children's clothing: TT637
- Laying out cities
  - Municipal engineering: TD160+
- Laying out gear teeth
  - Mechanical movements: TJ186
- Laying pipes
  - Building construction: TH6293+
- Layout
  - Sewerage systems: TD659
- LDAP (Computer network protocols):
  - TK5105.5725
- Leaching equipment
  - Chemical technology: TP159.L4
- Lead
  - Air pollutants: TD887.L4
  - Chemical technology: TP245.L4
  - Effect on food: TX572.L4
  - Engineering materials: TA480.L4
  - Environmental pollutants: TD196.L4
  - Metallography: TN693.L4

## INDEX

- Lead
  - Metallurgy: TN785
  - Nuclear engineering: TK9185.2.L43
  - Ore deposits and mining: TN450+
  - Prospecting: TN271.L4
  - Soil pollutants: TD879.L43
- Lead-acid batteries
  - Electricity production: TK2945.L42
- Lead and silver
  - Metallurgy: TN770
- Lead burning
  - Plumbing: TH6691
- Lead roofing
  - Building construction: TH2458
- Leaded glass
  - Decorative furnishings: TH8271+
- Leading edges
  - Aerodynamics: TL574.L4
- Leads
  - Generators: TK2487
- Leadwork
  - Handicrafts: TT265
- Leaf metals
  - Metal manufactures: TS260
- Leakage, Testing for
  - House drainage: TH6617
- Leaks
  - Petroleum pipelines: TN879.55
- Leather garments
  - Women's tailoring: TT524
- Leather industry
  - Electric power: TK4035.L4
  - Environmental effects: TD195.L4
  - Manufactures: TS940+
- Leatherwork
  - Handicrafts: TT290
  - Machinery: TS1043
- Leavening agents
  - Food processing and manufacture: TP431+
- Leaves
  - Nature photography: TR726.L42
- Lecithin
  - Food constituents: TP453.L43
- LED lamps and systems: TK4388
- Leeks
  - Cooking: TX803.L4
- Left-turn lanes
  - Highway engineering: TE176.3
- Legends
  - Aeronautical engineering: TL516
  - Astronautics: TL516
- Legislators
  - Photographic portraits: TR681.L4
- Legumes
  - Food values: TX558.L4
- Leica cameras
  - Photography: TR263.L4
- Leisure class
  - Photographic portraits: TR681.L44
- Lemonade: TP657.L46
  - Cooking: TX817.L45
- Lemongrass oil
  - Organic chemical industries: TP959.L4
- Lemons
  - Cooking: TX813.L4
  - Food values: TX558.L5
- Lens antennas: TK7871.67.L45
- Lenses
  - Lighthouses: TC379
  - Optical instruments: TS517.3+
  - Photography: TR270+
- Lenten cooking: TX837+
- Letter carriers
  - Photographic portraits: TR681.L47
- Lettering
  - Mechanical drawing: T371
- Levees
  - Coast protective works: TC337
  - River protective works: TC533
- Level indicators
  - Control engineering: TJ223.L5
- Leveling
  - Surveying: TA606+
- Levels
  - Surveying instruments: TA565
- Leveraction rifles: TS536.6.L48
- Libraries
  - Fire prevention and extinction: TH9445.L5
- Liernur sewerage system: TD666
- Life support systems
  - Space environment: TL1500+

## INDEX

- Lifesaving at fires
  - Fire extinction: TH9402+
- Lifesaving at sea
  - Use of airplanes: TL722.8
- Lift
  - Aerodynamics: TL574.L5
- Lifting
  - Industrial safety: T55.3.L5
- Lifting bodies
  - Aeronautics: TL713.7
- Lifting jacks
  - Mechanical engineering: TJ1430+
- Lifting machinery
  - Mechanical engineering: TJ1425+
- Lifting magnets
  - Hoisting machinery: TJ1366
- Lifts and inclines
  - Canals: TC763
- Light
  - Electrical engineering: TK1191+
- Light airplanes: TL685.1
- Light amplifiers: TK8360.L48
- Light distribution: TK4175
- Light-emitting diodes
  - Semiconductors: TK7871.89.L53
- Light filters
  - Photography: TR590.5
- Light metals
  - Manufactures: TS551+
  - Metallurgy: TN773+
- Light modulators: TK8360.L5
- Light pollution
  - Environmental effects: TD195.L52
- Light railways: TF670+
- Light rights
  - Natural lighting: TH7792
- Light water reactors
  - Nuclear engineering: TK9203.L45
- Lighter-than-air craft: TL605+
- Lighter-than-air craft industry
  - Technical aspects: TL667+
- Lighters for smokers
  - Manufactures: TS2280
- Lighthouses
  - Hydraulic engineering: TC375+
- Lighting
  - Airports: TL725.3.L5
- Lighting
  - Building construction: TH7700+
  - Cinematography: TR891
  - Environmental effects: TD195.L52
  - Mines: TN306.5+
  - Photography: TR590+
  - Railroad cars: TF447+
  - Railway equipment: TF445+
  - Railway tunnels: TF236
  - Tunneling: TA814
- Lighting devices
  - Motor vehicles: TL272
  - Woodworking: TT197.5.L34
- Lighting fixtures
  - Artificial lighting: TH7960+
- Lighting fixtures catalogs: TK4198
- Lighting for video recording
  - Cinematography: TR891
- Lighting plants: TK4219+
- Lightning arresters
  - Electric power: TK3248
- Lightning protection
  - Building construction: TH9057+
  - Electric power distribution system: TK3085
- Lightning protection systems: TH9092
- Lights
  - Lighthouses: TC377
- Lightweight alloys
  - Engineering and construction: TA484
- Lightweight concrete
  - Cement manufacture: TP884.L5
- Lightweight construction
  - Building construction: TH1100
  - Structural engineering: TA663
- Lightweight materials
  - Engineering materials: TA418.9.L53
- Lightweight steel
  - Engineering materials: TA479.L54
- Lignin
  - Wood composition: TS933.L5
- Lignite
  - Fuel: TP329
  - Mining: TN831+
- Lignite industry
  - Environmental effects: TD195.L53

## INDEX

- Lignocellulose
  - Biotechnology: TP248.65.L54
- Lime
  - Chemical technology: TP886
  - Environmental pollutants: TD196.L55
  - Masonry materials: TA434+
  - Mining engineering: TN948.L46
  - Soil stabilization: TE210.5.L5
- Lime treatment
  - Pollution control methods: TD192.4
- Limekilns
  - Chemical technology: TP886
- Limes
  - Cooking: TX813.L55
- Limestone: TN967
  - Masonry materials: TA428.L5
- Limestone industry
  - Environmental effects: TD195.L55
- Limit analysis
  - Structural analysis: TA652
- Limit design
  - Structural engineering: TA658.6
- Limousines: TL232.7
- Lincrusta
  - Wall decoration: TH8471
- Line
  - Electric power: TK3201+
  - Technique of: TK3226
  - Telegraph: TK5451+
  - Telephone: TK6201+
- Line balancing
  - Manufacturing engineering: TS178.5
- Line insulators
  - Electric power: TK3246
- Line material
  - Telegraph: TK5454
- Line of balance technique
  - Production control: TS158.4
- Linear algebras
  - Engineering mathematics: TA347.L5
- Linear control systems
  - Mechanical engineering: TJ220
- Linear integrated circuits
  - Electronics: TK7874.654
- Linear programming
  - Industrial engineering: T57.74+
- Linen
  - Dyeing: TP903
  - Flax industries: TS1710+
  - Textile fiber: TS1543
- Lingerie
  - Clothing manufacture: TT669+
- Lining
  - Women's tailoring: TT557
- Link belting
  - Mechanical engineering: TJ1119
- Link couplings
  - Mechanical engineering: TJ183
- Link motion
  - Mechanical engineering: TJ182+
- Links
  - Mechanical engineering: TJ182+
- Linoleum: TS1779.L5
- Linseed oil
  - Chemical technology: TP682
- Lintels
  - Window and door openings: TH2261+
- Lipids
  - Biotechnology: TP248.65.L57
  - Food constituent: TX553.L5
  - Food constituents: TP453.L56
- Lippmann's process
  - Photographic processing: TR525
- Liquefied gas
  - Chemical technology: TP243
- Liquefied natural gas
  - Fire prevention and extinction: TH9446.L57
- Liquefied petroleum gas
  - Fuel: TP359.L5
- Liqueurs
  - Distilling: TP611
- Liquid air
  - Explosives: TP290.L5
- Liquid chromatography
  - Food analysis: TX548.2.L55
- Liquid crystal devices
  - Optical instruments: TS518
- Liquid crystal displays
  - Electronics: TK7872.L56
- Liquid crystals
  - Engineering materials: TA418.9.L54



## INDEX

- Liquid fuel
  - Chemical technology: TP343+
- Liquid gas
  - Gas industry: TP761.L5
- Liquid metal-cooled reactors
  - Nuclear engineering: TK9203.L5
- Liquid metals
  - Engineering materials: TA463
- Liquid nitrogen automobiles: TL229.L56
- Liquid propellant rockets: TL783.4
- Liquids
  - Insulating material: TK3441.L5
- Liquor-makers' receipts: TP612
- Liquors
  - Cooking: TX726
- Literature distribution by airplane:  
TL722.5
- Lithium: TN490.L5
  - Chemical technology: TP245.L5
  - Engineering and construction:  
TA480.L5
  - Hazardous substances and their  
disposal: TD1066.L57
  - Metallurgy: TN799.L57
- Lithium batteries
  - Electricity production: TK2945.L58
- Litter and litter removal: TD813+
- Live loads
  - Structural analysis: TA654.3
- Live steam systems
  - Low-pressure steam heating:  
TH7576+
- LiveConnect (Netscape)
  - Web authoring software:  
TK5105.8885.N5
- Livery
  - Men's clothing: TT626
- Livestock
  - Nature photography: TR729.L5
- Living room furniture
  - Woodworking: TT197.5.L5
- Living rooms
  - House remodeling: TH4816.3.L57
- Loaders (Automotive): TL296.5
- Loading
  - Airplanes: TL711.L6
- Loading and unloading
  - Materials handling: TS180.5
- Loading conditions, Dynamic
  - Structural analysis: TA654+
- Loading conditions, Static
  - Structural analysis: TA648+
- Loads
  - Bridge engineering: TG260+
- Loads, Blast
  - Structural engineering: TA654.7
- Loads, Dynamic
  - Structural design: TA658.4+
- Loads, Ice
  - Structural analysis: TA654.4
- Loads, Live
  - Structural analysis: TA654.3
- Loads, Moving
  - Structural analysis: TA654.3
- Loads, Snow
  - Structural analysis: TA654.4
- Loads, Water wave
  - Structural analysis: TA654.55
- Loads, Wind
  - Structural analysis: TA654.5
- Lobbyists
  - Photographic portraits: TR681.L63
- Lobsters
  - Cooking: TX754.L63
- Local area networks (Computer  
networks)
  - Computer engineering: TK5105.7+
- Local railways: TF670+
- Location
  - Airports: TL725.3.L6
  - Hotels, clubs, restaurants, etc.:  
TX911.3.L62
  - Railroad engineering: TF190
  - Railroad surveying: TF215+
  - Railway construction: TF200
- Location-based services
  - Computer networks: TK5105.65
- Location engineering: TE206+
- Lock-in amplifiers: TK7871.58.L57
- Lock-joint brick
  - Brickmaking: TP832.L7
- Lock picking: TS525

## INDEX

- Locker hooking
  - Handicrafts: TT833
- Lockheed Aircraft Corporation:
  - TL686.L6
- Locks
  - Building construction: TH2279
  - Gunsmithing: TS535.2.L6
  - Locksmithing: TS529
  - Security in buildings: TH9735
- Locksmithing
  - Manufactures: TS519+
- Locomotive tenders: TJ671
- Locomotive works and shops: TJ680+
- Locomotives
  - Industrial use: TJ695
  - Maintenance: TJ675
  - Mechanical engineering: TJ603+
- Loess
  - Engineering materials: TA455.L6
- Lofts
  - Building design and construction: TH3000.L63
- Log cabins
  - Construction: TH4840
- Logan blackberry
  - Food values: TX558.L6
- Logarithmic amplifiers: TK7871.58.L6
- Logbooks
  - Air navigation: TL587
  - Space navigation: TL1070
- Logging railways: TF678
- Logic circuits
  - Computer engineering: TK7888.4
  - Electronic circuits: TK7868.L6
- Logic devices
  - Electronics: TK7872.L64
- Lomo cameras
  - Photography: TR263.L66
- Long distance flying
  - Airplanes: TL711.L7
- Long-Term Evolution
  - Wireless communication systems: TK5103.48325
- Longerons
  - Airplanes: TL681.L6
- Longitude
  - Air navigation: TL588+
- Longwall mining: TN286
- Looms
  - Weaving (Industrial): TS1493
- Loran
  - Aeronautical navigation equipment: TL696.L65
- Losses in transmission
  - Electric railways: TF912
- Lost arts
  - Technology: T33
- Lotus
  - Cooking: TX814.5.L68
  - Nature photography: TR726.L66
- Lotus Domino
  - Web authoring software: TK5105.8885.L67
- Loudspeaker cabinets
  - Woodworking: TT197.5.L6
- Loudspeakers
  - Electroacoustics: TK5983
- Louisiana style cooking: TX715.2.L68
- Louvers
  - Ventilation of buildings: TH7683.L7
- Low-fat foods: TP451.L67
- Low income groups
  - Nutrition: TX361.P66
- Low pollution combustion
  - Gasoline automobiles: TL214.P6
- Low-pressure hot water heating (with dome boilers): TH7518+
- Low-pressure steam heating
  - Hydronic systems: TH7570+
- Low probability of intercept radar: TK6592.L67
- Low temperature
  - Food preservation: TP372+
- Low temperature engineering: TP480+
- Low temperature sanitary engineering: TD940+
- Low tension A.C.
  - Dynamolectric machinery: TK2826
- Low tension A.C. systems
  - Electrical engineering: TK3142
- Low voltage generators
  - Dynamolectric machinery: TK2665
- Low voltage integrated circuits
  - Electronics: TK7874.66

## INDEX

Low-volume roads  
  Highway engineering: TE228.5  
Lubricants  
  Motor vehicles: TL153.5  
  Tribology: TJ1077+  
Lubrication  
  Aircraft engines: TL702.L8  
  Diesel engines: TJ798  
  Internal combustion engines: TJ789  
  Locomotives: TJ675  
  Mechanical engineering: TJ1075+  
  Motor vehicles: TL153.5  
  Railroad cars: TF389  
  Space vehicles: TL917  
Lubrication, Elastohydrodynamic:  
  TJ1077.5 E43  
Lucite  
  Plastics: TP1180.L8  
Luggage industry  
  Manufactures: TS2301.L8  
Lumber  
  Manufactures: TS800+  
Lumber industry  
  Air pollution: TD888.W6  
Lumber kilns: TS837  
Lumber sheds  
  Building construction: TH4485  
Lumbering machinery  
  Agricultural machinery: TJ1486.5  
Lumberyards  
  Building construction: TH4485  
  Fire prevention and extinction:  
    TH9445.L8  
Luminescence  
  Biotechnology: TP248.25.L85  
Lumped elements  
  Electronics: TK7874.54  
Lunar mining: TN291.35  
Lunchbox cooking: TX735  
Luncheons  
  Cooking: TX735  
Lunchrooms  
  Fire prevention and extinction:  
    TH9445.R44  
  Sanitary engineering: TH6057.R4  
Luxfer prisms  
  Natural lighting: TH7795

Lyddite  
  Explosives: TP290.L8  
  
M  
  
Macadam roads  
  Unpaved roads: TE243  
Macadamia  
  Cooking: TX814.2.M33  
Macaroni  
  Cooking: TX809.M17  
  Food processing and manufacture:  
    TP435.M3  
  Food values: TX560.M2  
Machine assignments  
  Industrial engineering: T60.74  
Machine design  
  Mechanical engineering: TJ227+  
Machine drawing  
  Mechanical engineering: TJ227+  
Machine drawing for electrical engineers  
  Dynamoelectric machinery: TK2325  
Machine embroidery: TT772  
Machine knitting  
  Clothing manufacture: TT679+  
Machine parts  
  Plastic: TP1185.M3  
Machine sewing  
  Textile arts: TT713  
Machine shops: TJ1125+  
  Construction: TJ1130+  
  Heating and ventilation: TH7392.M2  
  Noise control: TD893.6.M3  
  Ventilation: TH7684.M2  
Machine-to-machine communications:  
  TK5105.67  
Machine tool drives  
  Machine tools: TJ1188  
Machine tools: TJ1180+  
  Electric driving: TK4059.M32  
Machine-tractor stations  
  Building construction: TH4940  
Machinery  
  Boot and shoemaking: TS1005  
  Engineering: TA213+  
  Flax industries: TS1728  
  Glassmaking: TP859.5

## INDEX

- Machinery
  - Highway engineering: TE223+
  - Laundry work: TT997
  - Leatherwork: TS1043
  - Materials handling: TS180.3
  - Mine danger: TN320
  - Packaging: TS196.4
  - Papermills: TS1117+
  - Plant engineering: TS191+
  - Rubber industry: TS1891.5
  - Spinning
    - Textile industries: TS1483
  - Telegraph: TK5371
  - Textile printing: TP930.5
  - Tobacco industry: TS2249
  - Weaving (Industrial): TS1493
  - Wood products: TS850
- Machinery and auxiliaries
  - Dynamolectric machinery: TK2000+
- Machinery exclusive of prime movers:
  - TJ1040+
- Machinery for electric lighting: TK4241
- Machinery industry
  - Air pollution: TD888.M26
  - Waste control: TD899.M2
- Machinery, Maintenance and repair of
  - Mechanical engineering: TJ174
- Machinery manufacturing: TJ241
- Machinery, Photography of: TR717+
- Machinery, Planning for
  - Manufacturing engineering: TS181+
- Machines for caring for plants: TJ1484
- Machinima
  - Computer animation: TR897.74
- Machining
  - Ceramic technology: TP814
  - Mechanical engineering: TJ1180+
  - Plastics: TP1155
- Machinists' manuals
  - Machine shop practice: TJ1165
- Macintosh (Computer)
  - Electronics: TK7889.M33
- Mackerel
  - Cooking: TX748.M32
- Macramé
  - Textile arts: TT840.M33
- Macro lenses
  - Photography: TR271.M33
- Macromedia Generator
  - Web authoring software:
    - TK5105.8885.M32
- Macromedia sitespring
  - Web authoring software:
    - TK5105.8885.M37
- Macromedia Studio MX
  - Web authoring software:
    - TK5105.8885.M38
- Macrophotography: TR684
- Madder
  - Textile dyes: TP925.M33
- Magazines, Fashion: TT500.A2+
- Magazines, Powder
  - Explosives: TP295
- MAGLVE
  - High speed ground transportation:
    - TF1600
- Magnesia cements
  - Cement manufacture: TP884.M2
- Magnesia industries
  - Chemical technology: TP889
- Magnesite
  - Mining engineering: TN948.M2
- Magnesium
  - Aeronautics: TL699.M32
  - Chemical technology: TP245.M2
  - Engineering and construction:
    - TA480.M3
  - Fire prevention and extinction:
    - TH9446.M3
  - Manufactures: TS560
  - Metallography: TN693.M3
  - Metallurgy: TN799.M2
  - Motor vehicle construction materials:
    - TL240.5.M33
  - Ore deposits and mining: TN490.M2
- Magnesium industry and trade
  - Environmental effects: TD195.M33
- Magnetic amplifiers: TK7871.23
- Magnetic analysis
  - Testing of materials: TA417.3
- Magnetic bearings
  - Mechanical engineering: TJ1073.7

## INDEX

- Magnetic cores and devices
  - Electronics: TK7872.M25
- Magnetic devices
  - Control engineering: TJ223.M3
- Magnetic energy storage
  - Electrical engineering: TK2985
- Magnetic levitation vehicle
  - High speed ground transportation: TF1600
- Magnetic materials
  - Electrical engineering: TK454.4.M3
  - Electronics: TK7871.15.M3
- Magnetic memory
  - Computer engineering: TK7895.M3
- Magnetic recorders
  - Aircraft: TL691.M3
  - Amateurs' manuals: TK9967
- Magnetic resonance imaging analysis of food: TX542
- Magnetic separation
  - Biotechnology: TP248.25.M34
  - Chemical engineering: TP156.M26
  - Ore dressing and milling: TN530
- Magnetic shielding
  - Electrical engineering: TK454.4.M33
- Magnetic tape
  - Electroacoustics: TK5984
- Magnetic tape heads
  - Electroacoustics: TK5984
- Magnetic tape recorders and recording
  - Electronics: TK7881.6+
- Magnetite
  - Ore deposits and mining: TN402.M3
- Magnetoelectric machines
  - Amateurs' manuals: TK9909
- Magnetohydrodynamic devices
  - Plasma engineering: TA2040
- Magnetohydrodynamic generators
  - Electrical engineering: TK2970
- Magnetohydrodynamics
  - Plasma engineering: TA2040
- Magnetos
  - Aircraft engines: TL702.I5
  - Gasoline automobiles: TL213
  - Internal combustion engines: TJ787+
- Magnetrons
  - Electronics: TK7871.75
- Magnus effect
  - Aerodynamics: TL574.M3
- Mail cars
  - Railway equipment: TF467
- Mail chutes: TJ1398
- Maillard reaction
  - Food processing: TP372.55.M35
- Mailplanes: TL685.2
- Mains
  - Gas industry: TP757
- Mains supply
  - Radio: TK6565.M35
- Maintainability
  - Product engineering: TS174
- Maintenance
  - Airplanes: TL671.9
  - Building construction: TH3351+
  - Building gas supply: TH6860
  - Buses: TL232.2
  - Floors and flooring: TH2528
  - Hotels, clubs, restaurants, etc.: TX928
  - Houses: TH4817+
  - Motor vehicle operation: TL152+
  - Motorcycles: TL444
  - Petroleum pipelines: TN879.58
  - Plumbing: TH6681+
  - Railway permanent way: TF530+
  - Railway tunnels: TF234+
  - Sewers: TD716+
  - Tractors: TL233.2
  - Trucks: TL230.2
- Maintenance and repair
  - Aircraft engines: TL701.5
  - Airports: TL725.3.M16
  - Bridge engineering: TG315
  - Building construction: TH3301+
  - Building fittings: TH6013
  - Cement and concrete construction: TA682.446
  - Computer engineering: TK7887
  - Electronics: TK7870.2
  - Gunsmithing: TS535.4
  - Highway engineering: TE220+
  - Space vehicles: TL915
- Maintenance and repair of machinery
  - Mechanical engineering: TJ174

## INDEX

- Maize
  - Cooking: TX809.M2
  - Food values: TX558.C57
- Make-or-buy decisions
  - Manufacturing engineering: TS183.6
- Makerspaces
  - Industrial design: TS171.57
- Making up trains: TF593
- Makkölli
  - Cooking: TX726.4
  - Fermented beverage: TP579
- Malachite
  - Mineral industries: TN997.M35
- Malleable cast iron
  - Metallurgy: TN719
- Malt
  - Brewing and malting: TP587
- Malted milk
  - Cooking: TX817.M5
- Malting
  - Beverages: TP568+
- Man-machine systems
  - Industrial engineering: T59.7+
- Managed pressure drilling: TN871.26
- Management
  - Airports: TL725.3.M2
  - Chemical processing of wood: TS937
  - Computer manufacturing plants: TK7886
  - Construction sites: TH438+
  - Electrical enterprises: TK441+
  - Engineering works: TA190+
  - Hotels, clubs, restaurants, etc.: TX911.3.M27
  - Industrial research: T175.5
  - Irrigation projects: TC812
  - Metallurgical plants: TN675.7
  - Packaging: TS196+
  - Radioactive waste disposal: TD898.14.M35
- Management consultants
  - Industrial engineering: T56.3
- Management engineering: T55.4+
- Management information systems
  - Industrial engineering: T58.6+
- Management of information systems
  - Industrial engineering: T58.64
- Management science: T55.4+
- Managerial control systems
  - Industrial engineering: T58.4
- Mandoline recipes
  - Cooking: TX840.M35
- Manganese: TN490.M3
  - Air pollutants: TD887.M34
  - Assaying: TN580.M3
  - Chemical technology: TP245.M3
  - Engineering and construction: TA480.M35
  - Metallography: TN693.M35
  - Metallurgy: TN799.M3
  - Ore dressing and milling: TN538.M35
  - Prospecting: TN271.M3
- Manganese steel
  - Metallurgy: TN757.M3
- Mangos
  - Cooking: TX813.M35
  - Food processing and manufacture: TP441.M36
- Manholes
  - Boilermaking: TJ294
  - Sewer appurtenances: TD696
- Manicuring
  - Professional operators: TT958.3
- Manipulation
  - Glass and glassmaking: TP859
  - Photography: TR147
- Manipulators
  - Industrial safety: T55.3.M35
  - Nuclear engineering: TK9151.7
- Manned space flight: TL873
- Mansard roofs
  - Building construction: TH2405
- Mantelpieces
  - Building construction: TH2288
- Manual systems
  - Telephone connections: TK6394
- Manual training
  - Handicrafts: TT161+
- Manufacture
  - Machine tools: TJ1180+
  - Salt: TN905+
- Manufactures: TS1+
  - Waste control: TD899.M29

## INDEX

- Manufacturing
  - Airplanes: TL671.28
  - Military airplanes: TL685.3
  - Motor vehicles: TL278
  - Rockets: TL784.3+
- Manufacturing capacity
  - Industrial engineering: T58.7+
- Manufacturing costs
  - Cost control: TS167
- Manufacturing engineering
  - Production management: TS176+
- Manufacturing personnel: TS155.4+
- Manufacturing planning
  - Production management: TS176+
- Manufacturing processes
  - Manufacturing engineering: TS183+
- Manuscripts
  - Photography: TR825
- Maple sugar
  - Cooking: TX767.M3
  - Food processing: TP395
  - Food values: TX560.M3
- Maple syrup
  - Cooking: TX767.M3
  - Food processing: TP395
  - Food values: TX560.M3
- Maps
  - Air navigation: TL587
- Marble: TN967
  - Masonry materials: TA428.M3
- Marbling: TT385
  - Interior painting: TT323
  - Wood finishing: TT330
- Margarine
  - Chemical technology: TP684.M3
- Marijuana
  - Cooking: TX819.M25
- Marinades
  - Cooking: TX819.M26
- Marinas
  - Environmental effects: TD195.M37
  - Hydraulic engineering: TC328
- Marine algae
  - Nutrition: TX402
- Marine animals
  - Nature photography: TR729.M37
- Marine biotechnology: TP248.27.M37
- Marine cooking: TX840.M7
- Marine debris
  - Water pollutants: TD427.M35
- Marine fiber
  - Textile fiber: TS1544.M3
- Marine mineral resources: TN264
- Marine terminals
  - Environmental effects: TD195.M39
- Mariner project: TL789.8.U6M3
- Marines
  - Artistic photography: TR670+
- Markers
  - Aeronautical navigation equipment: TL696.M3
- Marketing
  - Hotels, clubs, restaurants, etc.: TX911.3.M3
- Marking
  - Airports: TL725.3.M3
  - Industrial safety: T55.3.M37
- Marking devices industry: TS2301.M3
- Markov processes
  - Chemical engineering: TP155.2.M34
- Marl
  - Mining engineering: TN948.M3
- Marmalade
  - Preservation and storage: TX612.M37
- Marquetry
  - Woodworking: TT192
- Mars (Planet)
  - Flight to: TL799.M3
- Masers amplifiers: TK7871.4
- Masks
  - Decorative crafts: TT898
  - Electronics: TK7872.M3
- Masonry
  - Housing material: TH4818.M37
- Masonry bridges: TG330
- Masonry building construction:
  - TH1199+
- Masonry construction
  - Structural engineering: TA670+
- Masonry dams: TC547
- Masonry domes
  - Building design and construction: TH2170.7

## INDEX

Masonry in building construction:  
TH5311+  
Masonry materials: TA425+  
Masonry stoves  
Convective heating: TH7436.M37  
Mass feeding  
Food service: TX946  
Mass spectrometry  
Biotechnology: TP248.25.M38  
Mass transfer  
Chemical engineering: TP156.M3  
Master antenna television: TK6676  
Matches: TP310  
Mate (Tea)  
Food values: TX560.M35  
Material of boilers  
Boilermaking: TJ291  
Materials  
Biotechnology: TP248.65.M37  
Ceramic technology: TP810.5  
Color photography: TR515  
Electronics: TK7869+, TK7871+  
Hairdressing: TT969  
Laundry work: TT997  
Lighter-than-air craft: TL665+  
Machine and hand tools: TJ1192+  
Nuclear engineering: TK9185+  
Packaging: TS198.2+  
Photography: TR196+  
Roadmaking material: TE200+  
Rockets: TL784.8  
Space vehicles: TL950+  
Materials databases  
Materials engineering: TA404.25  
Materials handling  
Manufacturing engineering: TS180+  
Noise control: TD893.6.M35  
Materials management  
Inventory control: TS161  
Materials of engineering and  
construction: TA401+  
Materials, Residual  
Engineering: TA709.5  
Materials science as a profession:  
TA403.9  
Maternity clothes  
Women's tailoring: TT547

Mathematica  
Computer-aided engineering:  
TA345.5.M38  
Mathematical modelling  
Petroleum geology: TN870.53  
Mathematical models  
Biotechnology: TP248.25.M39  
Chemical engineering: TP155.2.M35  
Engineering mathematics: TA342+  
Food processing: TP370.9.M38  
Photography in surveying: TA593.5  
Radioactive waste disposal:  
TD898.14.M36  
Telecommunication: TK5102.83  
Mathematicians  
Photographic portraits: TR681.M38  
Mathematics  
Carpentry and joinery: TH5612+  
Chemical engineering: TP155.2.M36  
Electronics: TK7864  
Hotels, clubs, restaurants, etc.:  
TX911.3.M33  
Hydraulic engineering: TC157.8  
Image processing: TA1637.5  
Surveying: TA556.M38  
Matrices  
Engineering mathematics: TA347.D4  
Matrix methods  
Structural engineering: TA642  
Matting  
Floor covering: TS1779.M2  
Maya  
Computer animation software:  
TR897.72.M39  
Mayonnaise  
Condiments: TX407.M38  
Cooking: TX819.M3  
Mazut  
Petroleum products: TP692.4.M3  
McLaren (Racing automobile):  
TL236.15.M35  
Mead  
Fermented beverage: TP588.M4  
Measurement  
Air pollution: TD890  
Biotechnology: TP248.25.M43  
Electronics: TK7874.58



## INDEX

- Measurement of angles
  - Surveying: TA603
- Measurement of distances
  - Surveying: TA601
- Measurement of noise: TD894
- Measurement of pollution: TD193+
- Measurement of power
  - Mechanical engineering: TJ1053
- Measurement, Technical: T50
- Measurements
  - Applied fluid mechanics:
    - TA357.5.M43
  - Building construction: TH434+
  - Carpentry and joinery: TH5614+
  - Commercial buildings: TH4315
  - Heating of buildings: TH7335+
  - Houses: TH4815.8
  - Plumbing: TH6234+
  - Soil mechanics: TA710.5
- Measuring
  - Dressmaking: TT520
  - Men's tailoring: TT590
- Measuring tools
  - Machine shops: TJ1313
- Meat
  - Cooking: TX749+
  - Food values: TX556.M4
  - Pet food industry: TS2288.M4
  - Preservation and storage: TX612.M4
- Meat curing
  - Manufactures: TS1960+
- Meat extracts
  - Nutrition: TX389
- Meat industry
  - Noise control: TD893.6.M43
  - Waste control: TD899.M4
- Meat inspection
  - Manufactures: TS1975
- Meat packing industries
  - Manufactures: TS1970+
- Meat, Precooked
  - Food values: TX556.M43
- Meat substitutes: TP447.M4
  - Cooking: TX838
- Mechanic trades: TT1+
- Mechanical alloying: TN698
- Mechanical applications of electric power: TK4050+
- Mechanical damage, Packaging for protection from: TS198.5+
- Mechanical devices and figures
  - Mechanical engineering: TJ210.2+
- Mechanical discharge systems
  - House drainage: TH6607
- Mechanical draft
  - Furnaces: TJ335
- Mechanical drawing: T351+
- Mechanical engineering: TJ1+
- Mechanical engineering and electrical engineering: TJ163+
- Mechanical engineering as a profession:
  - TJ157
- Mechanical equipment
  - Building fittings: TH6010+
- Mechanical equipment of docks for cargo handling: TC370
- Mechanical haulage
  - Mines: TN335
- Mechanical machinery: TJ1+
- Mechanical models
  - Machinery: TJ248
- Mechanical motive power
  - Canals: TC769
- Mechanical movements
  - Machinery: TJ181+
- Mechanical process
  - Woodpulp industry: TS1176.6.M4
- Mechanical properties
  - Materials: TA404.8+
- Mechanical stokers
  - Furnaces: TJ345
  - Locomotives: TJ649
- Mechanical telephones: TK6500
- Mechanical treatment
  - Water purification: TD437+
- Mechanical wear
  - Endurance properties and tests:
    - TA418.4
- Mechanics applied to machinery
  - Mechanical engineering: TJ170+
- Mechanics of engineering: TA349+
- Mechanics of flight: TL570+
- Mechanics of materials: TA405+

## INDEX

- Mechanization
  - Industrial engineering: T59.4
- Mechatronics: TJ163.12
- Medical examination
  - Drivers: TL152.35
- Medical photography: TR708
- Medium format cameras
  - Photography: TR257
- Medium tension A.C. systems
  - Electrical engineering: TK3143
- Meerschaum
  - Mining engineering: TN948.M5
- Melanite
  - Explosives: TP290.L8
- Melons
  - Cooking: TX813.M44
- Membrane filtration
  - Water purification: TD442.5
- Membrane methods
  - Saline water conversion: TD480.4+
  - Sewage purification: TD754
- Membrane reactors
  - Biotechnology: TP248.25.M45
- Membrane separation
  - Biotechnology: TP248.25.M46
- Membrane switches
  - Electronics: TK7872.M46
- Membranes
  - Chemical technology: TP159.M4
- Memory cards
  - Computer engineering: TK7895.S62
- Memory systems
  - Computer engineering: TK7895.M4
- Men
  - Hair styles: TT963
  - Photographic portraits: TR681.M4
- Mending
  - Handicrafts: TT151
  - Textile arts: TT720+
- Men's clothing
  - Tailoring: TT570+
- Men's fashions: TT617
- Mental requirements
  - Air pilots: TL555
- Menthol
  - Chemical technology: TP248.M4
- Menus
  - Cooking: TX727+
  - Hotels, clubs, restaurants, etc.: TX911.3.M45
- Mercantile buildings
  - Electric power: TK4035.M37
- Mercerization
  - Textile industries: TS1515
- Merchants
  - Photographic portraits: TR681.M44
- Mercury
  - Air pollutants: TD887.M37
  - Assaying: TN580.M4
  - Chemical technology: TP245.M5
  - Effect on food: TX572.M4
  - Engineering and construction: TA480.M4
  - Environmental pollutants: TD196.M38
  - Metallurgy: TN790
  - Ore deposits and mining: TN460+
  - Prospecting: TN271.M4
  - Waste disposal: TD812.5.M45
  - Water pollutants: TD427.M4
- Mercury-arc rectifiers
  - Electronics: TK7871.82
- Mercury (Planet)
  - Flight to: TL799.M4
- Mercury project: TL789.8.U6M4
- Mercury vapor lamps: TK4381
- Merry-go-round art
  - Decorative crafts: TT898.2
- Mescal
  - Distilled liquors: TP607.M46
- MESY
  - Computer-aided engineering: TA345.5.M16
- Metal
  - Waste disposal: TD799.5
- Metal arch bridges: TG410
- Metal bridges
  - Continuous girder bridges: TG416
- Metal carbonyls
  - Chemical technology: TP248.M43
- Metal-clad airships: TL656.6
- Metal coating
  - Plastics: TP1175.M4

## INDEX

Metal coatings  
  Engineering and construction: TA491  
Metal construction  
  Structural engineering: TA684+  
Metal detectors  
  Electronics: TK7882.M4  
Metal filament lamps: TK4352  
Metal finishing  
  Manufactures: TS653+  
  Painting: TT382+  
Metal finishing industry  
  Waste control: TD899.M45  
Metal flooring: TH2529.M4  
Metal forming: TS200+  
Metal furniture  
  Manufactures: TS408  
Metal insulator semiconductors:  
  TK7871.99.M4  
Metal lathing  
  Building construction: TH1675  
Metal manufactures: TS200+  
Metal (non-foil)  
  Packaging materials: TS198.3.M4  
Metal oxide semiconductors:  
  TK7871.99.M44  
Metal restraints  
  Locksmithing: TS531  
Metal roofing  
  Building construction: TH2454+  
Metal salts  
  Photographic processes: TR430+  
Metal sheathing  
  Building construction: TH1675  
Metal spinning  
  Handicrafts: TT206  
Metal spraying  
  Metal finishing: TS655  
Metal stamping  
  Metal manufactures: TS253  
Metal thread embroidery: TT778.M47  
Metal turning  
  Handicrafts: TT207  
Metal wastes  
  Waste disposal: TD898.8.M47  
Metallic bearings  
  Machinery: TJ1061+

Metallic composites  
  Engineering and construction:  
    TA481+  
  Metallography: TN693.M38  
Metallic glasses  
  Metallography: TN693.M4  
Metallic ore deposits: TN263  
Metallic ores  
  Mining engineering: TN265  
Metallic oxides  
  Insulating material: TK3441.M4  
Metallic soaps: TP992  
Metallizing  
  Metal finishing: TS655  
Metallo-organic compounds  
  Chemical technology: TP248.M45  
Metallographic specimens: TN690.7  
Metallography: TN689+  
Metallurgical analysis  
  Assaying: TN565  
Metallurgical furnaces: TN677+  
Metallurgical information,  
  Communication of: TN610+  
Metallurgical laboratories: TN570+  
Metallurgical literature: TN610.5  
Metallurgical plants: TN675.5+  
  Air pollution: TD888.M4  
  Dust removal: TH7697.M4  
  Electric power: TK4035.M4  
  Energy conservation: TJ163.5.M48  
  Waste control: TD899.M43  
  Water pollution: TD428.M47  
Metallurgical research: TN207  
Metallurgy: TN1+, TN600+  
  Ferrous metals: TN701.482+  
  Nonferrous metals: TN758+  
  Space vehicles: TL954.M47  
Metals  
  Aeronautics: TL699.M4  
  Air pollutants: TD887.M4  
  Effect on food: TX571.M48  
  Engineering materials: TA459+  
  Environmental pollutants: TD196.M4  
  Hazardous substance disposal:  
    TD1066.M46  
  Heat treatment: TN672  
  Joining: TS226+

## INDEX

- Metals
  - Rolling: TS340
  - Soil pollutants: TD879.M47
  - Space vehicles: TL954.M47
  - Surface treatment: TS653+
  - Water pollutants: TD427.M44
- Metals, Extrusion of
  - Metal manufactures: TS255
- Metals, Heavy
  - Air pollutants: TD887.H4
  - Soil pollutants: TD879.H4
- Metals, Radioactive
  - Air pollutants: TD887.R3
- Metalwork
  - Motor vehicles: TL255.8
  - Noise control: TD893.6.M45
- Metalworking
  - Building construction: TH5701+
  - Handicrafts: TT205+
  - Manufactures: TS200+
- Metalworking industries
  - Environmental effects: TD195.M42
- Metalworking industry
  - Waste control: TD899.M45
- Metalworking machinery
  - Manufactures: TS215
- Metamaterials
  - Electronics: TK7871.15.M48
- Meteorological photography: TR732.8+
- Meteorological satellites: TL798.M4
- Meteorology in aeronautics: TL556+
- Metering pumps
  - Hydraulic machinery: TJ916
- Meters
  - Electric meters: TK311+
  - Hydrodynamics: TC177
- Methanation
  - Chemical engineering: TP156.M45
- Methane
  - Air pollution: TD885.5.M48
  - Fuel: TP359.M4, TP360
  - Gas industry: TP761.M4
- Methane industry
  - Water pollution: TD428.M49
- Methanol
  - Distilling: TP594
- Methods engineering
  - Industrial engineering: T60+
- Methods time measurement
  - Industrial engineering: T60.52
- Methoxychlor
  - Environmental pollutants: TD196.M48
- Methyl ether vehicles: TL229.M48
- Methyl sulfoxide
  - Chemical technology: TP248.M48
- Methylophilic microorganisms:
  - TP248.27.M47
- Methylpropene
  - Gas industry: TP761.M44
- Metric system
  - Industrial applications: T50.5
- Metropolitan area networks
  - Electrical engineering: TK5105.85
- Metropolitan plants
  - Production of electric energy: TK1006
- Metropolitan transportation systems:
  - TA1205+
- Mexican Americans
  - Nutrition: TX361.M39
- Mezzograph
  - Photography: TR976
- Mica
  - Engineering materials: TA455.M5
  - Mining engineering: TN933
  - Prospecting: TN271.M5
- Micro-optics
  - Applied optics: TA1659.5+
- Micro-optomechanical systems
  - Electronics: TK8360.O68
- Microbial biotechnology: TP248.27.M53
- Microbial exopolysaccharides
  - Biotechnology: TP248.65.M53
- Microbial granulation technology
  - Sewage treatment: TD756.65
- Microbial proteins
  - Biotechnology: TP248.65.M54
- Microbiology
  - Sewage: TD736
- Microcomputers
  - Control engineering: TJ223.M53
- Microcrystalline polymers
  - Plastics: TP1183.M5

## INDEX

- Microelectromechanical systems:
  - TK7875
- Microelectronics: TK7874+
- Microencapsulation
  - Packaging: TS198.C33
- Microfilming
  - Photographic reproduction: TR835
- Microfluidic devices: TJ853.4.M53
- Microfluidics: TJ853.4.M53
- Microharvesters
  - Electronics: TK2897
- Microlenses
  - Applied optics: TA1660.5
- Microlithography
  - Electronics: TK7872.M3
- Micromachining: TJ1191.5
- Microorganisms
  - Water pollutants: TD427.M53
- Microphones
  - Electroacoustics: TK5986
  - Telephone: TK6478
- Microprocessors
  - Computer engineering: TK7895.M5
  - Control engineering: TJ223.M53
- Microreactors
  - Chemical technology: TP159.M53
- Microresonators
  - Electronics: TK8360.M53
- Microrobots: TJ211.36
- Microscopic analysis
  - Food: TX543
  - Food adulterants: TX567
  - Water: TD384
- Microscopy
  - Fermentation industries: TP515
  - Testing of materials: TA417.23
  - Textile industries: TS1449
- Microsoft content management server
  - Web authoring software:
    - TK5105.8885.M52
- Microsoft Digital image: TR267.5.M53
- Microsoft Expression Web
  - Web authoring software:
    - TK5105.8885.M525
- Microsoft FrontPage
  - Web authoring software:
    - TK5105.8885.M53
- Microsoft Internet Explorer:
  - TK5105.883.M53
- Microsoft Office
  - Web authoring software:
    - TK5105.8885.M54
- Microsoft Office professional
  - Web authoring software:
    - TK5105.8885.M54
- Microsoft SharePoint
  - Web authoring software:
    - TK5105.8885.M543
- Microsoft TV
  - Web authoring software:
    - TK5105.8885.M545
- Microsoft Visual InterDev
  - Web authoring software:
    - TK5105.8885.M55
- Microsoft Visual studio
  - Web authoring software:
    - TK5105.8885.M57
- Microsoft Word
  - Web authoring software:
    - TK5105.8885.M59
- Microspacecraft: TL795.4
- Microstrip antennas: TK7871.67.M5
- Microwave antennas: TK7871.67.M53
- Microwave circuits
  - Electronics: TK7876+
- Microwave communication systems:
  - TK5103.4833
  - Amateurs' manuals: TK9957
- Microwave cooking: TX832
- Microwave holography: TA1552
- Microwave lenses
  - Radar: TK6590.M5
- Microwave ovens
  - Cooking: TX657.O64
- Microwave transistors: TK7871.96.M53
- Microwaves
  - Electronics: TK7876+
- Middens
  - Sewage disposal: TD775
- Middle-aged persons
  - Nutrition: TX361.M47
- Middle school students
  - Nutrition: TX361.M474

## INDEX

- Middlesex Canal
  - Inland navigation: TC625.M6
- Midget cars: TL236.6
- Midwestern style cooking:
  - TX715.2.M53
- Migrant laborers
  - Nutrition: TX361.M48
- Military aeronautics
  - Environmental effects: TD195.M45
- Military bases
  - Energy conservation: TJ163.5.M54
- Military planes: TL685.3
- Milk
  - Cooking: TX759.5.M54
  - Food values: TX556.M5
  - Nutrition: TX379
- Milk plants
  - Waste control: TD899.D3
- Milk products
  - Food values: TX556.M5
- Milkshakes
  - Cooking: TX817.M5
- Millet
  - Food values: TX558.M5
- Millimeter wave communication systems: TK5103.4835
- Millimeter waves
  - Electronics: TK7876.5
- Millinery
  - Clothing manufacture: TT650+
- Milling
  - Gold and silver metallurgy: TN762
  - Metalworking: TT209
- Milling cutters
  - Machine shops: TJ1227
  - Machine tools: TJ1186
- Milling industry: TS2120+
- Milling machinery
  - Mining: TN505+
- Milling machines
  - Machine shops: TJ1225+
- Mills
  - Building construction: TH4511+
  - Electric lighting: TK4399.M5
  - Fire prevention and extinction: TH9445.M4+
  - Heating and ventilation: TH7392.M6
- Millwork
  - Manufactures: TS878
- MIMO systems
  - Wireless communication systems: TK5103.4836
- Mine accidents: TN311+
- Mine buildings
  - Building construction: TH4561
- Mine cars: TN342
- Mine communication systems: TN344
- Mine drainage: TN321+
- Mine dusts: TN312
- Mine examination and valuation:
  - TN272+
- Mine explosions: TN313
- Mine filling: TN290
- Mine fires: TN315
- Mine haulage: TN331+
- Mine hoisting: TN331+
- Mine maps: TN273
- Mine organization and management:
  - TN274
- Mine pumps: TN325
- Mine railroads: TN336
- Mine roof bolting: TN289.3
- Mine roof falls: TN317
- Mine sanitation: TN300
- Mine selling: TN272+
- Mine subsidences: TN319
  - Environmental effects: TD195.M48
- Mine surveying: TN273
- Mine tracks: TN336
- Mine transportation: TN331+
- Mineral deposits: TN263
- Mineral industries: TN1+
  - Dust removal: TH7697.M56
  - Energy conservation: TJ163.5.M56
  - Environmental effects: TD195.M5
  - Noise control: TD893.6.M5
  - Waste control: TD899.M47
  - Water pollution: TD428.M56
- Mineral oils
  - Chemical technology: TP685+
- Mineral waters
  - Mining engineering: TN923+
- Mineralogy, Applied: TN260
- Mineralogy, Economic: TN260

## INDEX

- Minerals
  - Food constituent: TX553.M55
  - Nature photography: TR732.5
- Miners
  - Nutrition: TX361.M5
- Miners' lamps: TN307
- Mines
  - Dangers and accidents: TN311+
  - Photography: TR672
  - Waste control: TD899.M5
- Mines, Lighting of: TN306.5+
- Mines, Ventilation of: TN301+
- Miniature cameras
  - Photography: TR262
- Miniature craft
  - Handicrafts: TT178
- Miniature engines
  - Locomotives: TJ630
- Minidisc players
  - Electronics: TK7881.78
- Minidisks
  - Electronics: TK7881.78
- Mining
  - Use of airplanes: TL722.4
- Mining appliances: TN345+
- Mining companies: TN400+
- Mining engineering: TN1+
- Mining engineering as a profession:
  - TN160
- Mining in extreme environments:
  - TN291.24+
- Mining machinery: TN345+
  - Electric driving: TK4059.M55
- Mining machinery accidents: TN320
- Mining, Ocean
  - Environmental effects: TD195.O25
- Mining, Salt: TN900+
- Mining tools: TN345+
- Minolta camera
  - Photography: TR263.M47
- Minox camera
  - Photography: TR263.M5
- Minsk computer: TK7889.M55
- Mint
  - Cooking: TX819.M56
- Mirror-frames
  - Glassware: TP867
- Mirrors
  - Decorative crafts: TT898.3
  - Glassware: TP867
- Mischmetal
  - Metallography: TN693.R3
- Misfire
  - Internal combustion engines:
    - TJ787.3.M57
- Miso
  - Cooking: TX819.M57
  - Food processing: TP438.S6
- Mississippi River
  - Jetties: TC425.M65
- Mists
  - Air pollutants: TD884.5
- Miter wheels
  - Mechanical movements: TJ194
- Mitering
  - Building construction: TH5691
- Mitigation of climate change
  - Environmental protection: TD171.75
- Mixed culture
  - Biotechnology: TP248.25.M58
- Mixer recipes
  - Cooking: TX840.M5
- Mixers
  - Electronics: TK7872.M5
- Mixing
  - Applied fluid mechanics:
    - TA357.5.M59
  - Chemical engineering: TP156.M5
  - Concrete: TA439+
  - Plastics: TP1175.M5
- Mobile communication systems
  - Electrical engineering: TK5103.2+
- Mobile device forensics: TK5103.4837
- Mobile home cooking: TX840.M6
- Mobile home living: TX1100+
- Mobile homes
  - Construction: TH4819.M6
- Mobile offshore structures
  - Petroleum engineering: TN871.4
- Mobile robots
  - Mechanical engineering: TJ211.415
- Mobile television: TK6678.3+
- Mobiles
  - Decorative crafts: TT899

## INDEX

- Mochi
  - Cooking: TX814.5.M63
- Mocrophotography
  - Photographic reproduction: TR835
- Modal analysis
  - Structural analysis: TA654.15
- Mode-locked lasers
  - Applied optics: TA1688
- Model airplanes: TL770+
- Model airships: TL775
- Model analysis
  - Structural engineering: TA643
- Model engine
  - Aircraft engines: TL704.6
- Model gliders: TL774
- Model helicopters: TL776
- Model railways: TF197
- Model rockets: TL844
- Model space vehicles: TL844
- Model testing
  - Airplanes: TL671.8
  - Airships: TL660.5
- Modeling in clay
  - Decorative crafts: TT916
- Modelmaking
  - Handicrafts: TT154+
- Models
  - Aeronautics: TL770+
  - Airports: TL725.3.M63
  - Airships: TL775
  - Boilermaking: TJ295
  - Bridges: TG307
  - Cycles: TL438
  - Flying machines: TL713.7+
  - Handicrafts: TT154+
  - Heavier-than-air craft: TL670.5
  - Helicopters: TL776
  - Locomotives: TJ630
  - Motor vehicles: TL237+
  - Motorcycles: TL438
  - Ocean engineering: TC1680
  - Paper airplanes: TL778
  - Patents: T324
  - Propellers: TL777
  - Sloyd: TT188
  - Steam engines: TJ480
  - Tractors: TL233.8
- Models for water testing
  - Aeronautical research: TL567.M6
- Models for wind tunnel testing
  - Aeronautical research: TL567.M6
- Modems
  - Computer engineering:
    - TK7887.8.M63
- Moderators
  - Nuclear reactors: TK9209
- Modular coordination
  - Architectural engineering: TH860
- Modulators
  - Electronics: TK7872.M6
- Mohair
  - Textile fiber: TS1548.M6
- Moisture
  - Grain: TS2149
  - Packaging protection: TS198.8.M6
- Moisture content
  - Engineering materials: TA418.64
- Molasses
  - Cooking: TX819.M65
  - Sugars and syrups: TP413
- Molded interconnect devices
  - Electronic circuits: TK7868.M64
- Molding
  - Chemical engineering: TP156.M65
  - Metal manufactures: TS243+
  - Plastics: TP1150+
- Molding materials
  - Metal manufactures: TS243.5
- Molding sand
  - Metal manufactures: TS243.5
- Moldings (Exterior)
  - Building construction: TH2482+
- Moldings (Interior)
  - Building construction: TH2553
- Molds
  - Protection of buildings: TH9035
- Molecular communication
  - Electrical engineering: TK5103.57
- Molecular electronics: TK7874.8
- Molecular gastronomy
  - Cooking: TX652.95
- Molecular sieves
  - Chemical technology: TP159.M6



## INDEX

- Molten carbonate fuel cells
  - Electrical engineering: TK2933.M65
- Molten salt reactors
  - Nuclear engineering: TK9203.M65
- Molybdenum
  - Chemical technology: TP245.M7
  - Engineering and construction:
    - TA480.M6
  - Metallography: TN693.M64
  - Metallurgy: TN799.M7
  - Nuclear engineering: TK9185.2.M66
  - Ore deposits and mining: TN490.M7
- Molybdenum steel
  - Metallurgy: TN757.M7
- Moment distribution method: TA650+
- Moments
  - Aerodynamics: TL574.M6
  - Motor vehicle dynamics: TL245.2
- Monazite
  - Mining engineering: TN948.M7
- Mond gas
  - Gas industry: TP761.M7
- Monitoring
  - Biotechnology: TP248.25.M65
  - Computer network management:
    - TK5105.5485
  - Dynamolectric machinery: TK2313
- Monitoring receivers
  - Radio apparatus: TK6564.M64
- Monitoring structural health
  - Structural analysis: TA656.6
- Monoclonal antibodies
  - Biotechnology: TP248.65.M65
- Monoplane characteristics: TL671.3
- Monopole antennas: TK7871.67.M66
- Monopulse radar: TK6592.M6
- Monsters
  - Photographic portraits: TR681.M65
- Monte Carlo method
  - Industrial engineering: T57.64
- Montgolfiers: TL617
- Montmorillonite
  - Mining engineering: TN948.M72
- Monuments
  - Cement manufacture: TP885.M7
  - Stonework: TS788
- Moon
  - Extraterrestrial radio communication:
    - TK6571.5.M6
  - Flight to: TL799.M6
- Moon cars: TL480
- Mooring berths
  - Hydraulic engineering: TC373
- Mooring masts
  - Airports: TL731
- Moral and ethical aspects
  - Internet: TK5105.878
- Morals
  - Household employees: TX333
- Mordants
  - Dyeing: TP927
- Mordenite
  - Mining engineering: TN948.Z4
- Moroccan Jewish style cooking:
  - TX724.2.M67
- Morphing
  - Computer animation: TR897.75
- Mortar
  - Chemical technology: TP887
  - Masonry materials: TA434+
- Motels
  - Energy conservation: TJ163.5.H67
- Motherboards
  - Computer engineering: TK7895.B33
- Mothers
  - Photographic portraits: TR681.M67
- Mother's Day decorations
  - Decorative crafts: TT900.M68
- Mothproofing
  - Textile industries: TS1517
- Motion control devices
  - Mechanical engineering: TJ214.5
- Motion detectors
  - Electronics: TK7882.M68
- Motion picture cameras
  - Cinematography: TR880
- Motion picture film
  - Cinematography: TR886+
- Motion picture films in storehouses
  - Fire prevention and extinction:
    - TH9445.T5
- Motion picture machines
  - Cinematography: TR878+

## INDEX

- Motion picture theaters
  - Electric power: TK4035.M6
  - Fire prevention and extinction: TH9445.T4
- Motion pictures
  - Editing: TR899+
  - Photography: TR845+
  - Technical education: T65.5.M6
- Motion pictures for television
  - Cinematography: TR898
- Motion study
  - Industrial engineering: T60.7
  - Machine shops: TJ1143
- Motion time systems, Predetermined
  - Industrial engineering: T60.5+
- Motive power
  - Canals: TC767+
  - Dynamolectric machinery: TK2000+
  - Locomotives: TJ640+
- Motor bicycles: TL443
- Motor generators
  - Dynamolectric machinery: TK2695
- Motor scooters: TL450+
- Motor vehicle driving: TL152.5+
- Motor vehicle emissions
  - Air pollutants: TD886.5
- Motor vehicle fleets: TL165
- Motor vehicle operation: TL151.5+
- Motor vehicle scales
  - Highway engineering: TE176.8
- Motor vehicles: TL1+
  - Human engineering in design: TL250
- Motorboat cooking: TX840.M7
- Motorboat racing
  - Water pollution: TD428.M68
- Motorcars
  - Railway equipment: TF494+
- Motorcycle riding: TL440.5
- Motorcycles
  - Technology: TL439+
- Motorcycles, Electric: TL448.E44
- Motorcyclists: TL440.2
  - Photographic portraits: TR681.M69
- Motormen's manuals
  - Electric railways: TF965
- Motors
  - Aeronautics: TL701+
- Motors
  - Dynamolectric machinery: TK2511+
  - Gasoline automobiles: TL210+
  - Mechanical engineering: TJ751+
  - Motorcycles: TL445
  - Types: TK2537
- Motorsports
  - Environmental effects: TD195.M67
- Mountain climbing
  - Airplanes: TL721.1
- Mountain flying
  - Airplanes: TL711.M68
- Mountain people
  - Photographic portraits: TR681.M72
- Mountain photography: TR787
- Mountain railways
  - Technology: TF680+
- Mountain roads
  - Highway engineering: TE229.8
- Mounting of prints
  - Photographic processing: TR340
- Movable bed models
  - Hydraulic engineering: TC164.6
- Movable boilers
  - Hot water heating: TH7540
- Movable bridges: TG420
- Movable dams: TC549
- Movable furnaces
  - Hot water heating: TH7540
  - Hydronic systems: TH7475
  - Steam heating: TH7590
- Movable Type
  - Web authoring software: TK5105.8885.M67
- Moving, Household: TX307
- Moving loads
  - Structural analysis: TA654.3
- Moving of structures
  - Building construction: TH153
- Moving target indicator radar:
  - TK6592.M67
- MPEG
  - Digital video: TK6680.8.M74
- MPLS (Computer network protocols):
  - TK5105.573
- Mucilage
  - Organic chemical industries: TP970

## INDEX

Mud fuel: TP360  
Muds  
  Well drilling: TN871.27  
Muffin pans  
  Cooking: TX657.M85  
Muffins  
  Cooking: TX770.M83  
Mufflers  
  Aircraft engines: TL702.M8  
Mullet  
  Cooking: TX748.M84  
Mullite  
  Mining engineering: TN948.M8  
Multiengine flying  
  Airplanes: TL711.T85  
Multimedia communications  
  Electrical engineering: TK5105.15  
Multiphase current systems  
  Electrical engineering: TK3158  
Multiphase currents  
  Electrical engineering: TK1168  
Multiphase flow  
  Applied fluid mechanics:  
    TA357.5.M84  
Multiplane characteristics: TL671.3  
Multiple exposures  
  Photography: TR594  
Multiple punches  
  Machine shop: TJ1257  
Multiplex telegraph system: TK5538  
Multiplex telephone systems: TK6425  
Multiplexers  
  Electronics: TK7872.M8  
Multispectral imaging: TR267.733.M85  
Multistory frames  
  Structural engineering: TA660.F73  
Multitubular steam boilers  
  Mechanical engineering: TJ311+  
Municipal engineering: TD159+  
Municipal railways: TF701+  
Municipal refuse  
  Environmental technology: TD785+  
Muscovite  
  Mining engineering: TN948.M85  
Museums  
  Energy conservation: TJ163.5.M87

Museums  
  Fire prevention and extinction:  
    TH9445.M8  
  Sanitary engineering: TH6057.M87  
Mushrooms  
  Cooking: TX804  
  Food processing and manufacture:  
    TP444.M8  
  Food values: TX558.M9  
  Preservation and storage: TX612.M8  
Musicians  
  Photographic portraits: TR681.M86  
Mussels  
  Cooking: TX754.M98  
Must  
  Beverages: TP560  
Mustang automobile: TL215.M8  
Mustard  
  Cooking: TX819.M87  
Mustard oil  
  Organic chemical industries:  
    TP959.M8  
Mutton  
  Cooking: TX749.5.L35  
Muzzle-loading firearms  
  Manufactures: TS535.8  
Muzzle-loading rifle: TS536.6.M8  
Mycobacterium avium  
  Water pollutants: TD427.M93  
MyDVD  
  Digital video: TK6680.8.M93

## N

Nacelles  
  Airplanes: TL681.5  
Nail care  
  Professional operators: TT958.3  
Nail craft  
  Metalworking: TT213.6  
Nails  
  Metal manufactures: TS440+  
Nails, Metal  
  Engineering and construction:  
    TA492.N2  
Names, Domain  
  Internet: TK5105.8835

## INDEX

- Namo wep edit'ö
  - Web authoring software:
    - TK5105.8885.N34
- Nano automobiles: TL215.N35
- Nanoelectronics: TK7874.839+
- Nanofluids: TJ853.4.M53
- Nanoimprint lithography: TK7874.843
- Nanolithography: TK7874.843
- Nanonetworks: TK7874.845
- Nanoparticles
  - Environmental pollutants: TD196.N36
- Nanophotonics: TA1530
- Nanostructured materials
  - Engineering materials: TA418.9.N35
  - Environmental pollutants: TD196.N36
- Nanotechnology: T174.7
  - Biotechnology: TP248.25.N35
- Nanowires: TK7874.85
- Naphtha
  - Petroleum products: TP692.4.N3
- Naphthazarin
  - Textile dyes: TP918.N2
- Narrow gauge railways: TF675
- NASA: TL521.3+
- National Board of Fire Underwriters' rules
  - Building construction: TH9176
- National Research and Education Network
  - Computer networks: TK5105.875.N37
- Natto
  - Food processing: TP438.S6
- Natural carbons
  - Metallurgy: TN845+
- Natural draft
  - Ventilation of buildings: TH7674+
- Natural dyes: TP919+
  - Textile decoration: TT854.3
- Natural filtration
  - Mechanical treatment of water purification: TD443
- Natural flight
  - Aeronautics: TL575
- Natural foods
  - Cooking: TX741
  - Nutrition: TX369
- Natural gas
  - Air pollutants: TD885.5.N38
  - Fuel: TP350
  - Mining engineering: TN880+
- Natural gas hydraulic fracturing
  - Petroleum engineering: TN871.255
- Natural gas motor vehicles: TL228
- Natural gas pipelines: TN880.5
- Natural lighting
  - Building construction: TH7791+
  - Photography: TR590+
- Natural paraffin
  - Mineral oils and waxes: TP695
  - Mining engineering: TN857
- Natural sweeteners: TP426
- Natural ventilation
  - Ventilation of buildings: TH7674+
- Nature cinematography
  - Photography: TR893.4+
- Nature photography: TR721+
- Naval stations
  - Fire prevention and extinction: TH9445.N3
- Navigation computer
  - Aeronautical instrument: TL589.2.N3
- Navigation for air pilots: TL586+
- Navigation lights
  - Aircraft: TL691.N3
- Navigation, Performance-based
  - Air navigation: TL588.7
- Navigation satellites: TL798.N3
- Navigation systems
  - Space vehicles: TL3250+
- Navy yards
  - Fire prevention and extinction: TH9445.N3
- Navy-yards and naval stations
  - Environmental effects: TD195.N38
- Near field communication
  - Radio: TK6570.N43
- Near infrared spectroscopy
  - Biotechnology: TP248.25.N42
- Near misses
  - Airplane accidents: TL553.55
- Neckties
  - Men's tailoring: TT616
- Needle dams: TC549

## INDEX

- Needlepoint lace: TT805.N43
- Needlepunch
  - Nonwoven fabric: TS1830.N44
- Needles industry
  - Manufactures: TS2301.P5
- Needlework
  - Textile arts: TT700+
- Needlework (Kindergarten): TT708
- Negative-resistance devices
  - Electronics: TK7872.N4
- Negatives
  - Photographic processing: TR290+
- Neodymium
  - Chemical technology: TP245.N4
  - Metallurgy: TN799.N47
- Neon
  - Chemical technology: TP245.N5
- Neon lamps and tubes
  - Electric lighting: TK4383
- Neon tubes: TK7871.84.N4
- Nepheline syenite
  - Mining engineering: TN948.N37
- Nephelite (Nepheline)
  - Mining engineering: TN948.N4
- Neptunium
  - Metallurgy: TN799.N5
- Nernst lamps
  - Electric lighting: TK4359.N47
- Net
  - Balloons: TL625.N4
- Net systems
  - Fire prevention and extinction: TH9418
- NetCruiser: TK5105.883.N43
- NetObjects Fusion
  - Web authoring software: TK5105.8885.N48
- Nets
  - Engineering mathematics: TA347.N46
- Netscape: TK5105.883.N48
- Netscape Communicator: TK5105.883.N49
- Netscape Composer
  - Web authoring software: TK5105.8885.N49
- Netscape LiveConnect
  - Web authoring software: TK5105.8885.N5
- Netscape Navigator: TK5105.883.N48
- Netscape SuiteSpot: TK5105.883.N493
- Netting
  - Textile arts: TT840.N48
- Network analysis
  - Industrial engineering: T57.85
- Network File System
  - Computer network protocols: TK5105.574
- Network performance
  - Computer networks: TK5105.5956
- Network processors (Computer networks): TK5105.5457
- Network systems theory
  - Industrial engineering: T57.85
- Network Time Protocol
  - Computer network protocols: TK5105.575
- Networks, FiWi access: TK5105.775
- Networks on a chip (Computer networks): TK5105.546
- Neuroadaptive systems
  - Human engineering: TA167.5
- Neuromorphics
  - Bioengineering: TA164.4
- Neurotechnology
  - Human engineering: TA167.5
- Neutralization
  - Sewage disposal systems: TD747.9
- Neutron optical devices: TA1773
- Neutron sources
  - Nuclear engineering: TK9182
- New England style cooking: TX715.2.N48
- New towns
  - Environmental effects: TD195.N47
- New York airbrakes: TF430
- Newsprint: TS1160
- Newsreel cinematography
  - Photography: TR895
- Nicaragua Canal: TC784
- Nickel
  - Chemical technology: TP245.N6
  - Engineering materials: TA480.N6

## INDEX

- Nickel
  - Environmental pollutants: TD196.N48
  - Metallography: TN693.N5
  - Metallurgy: TN799.N6
  - Ore deposits and mining: TN490.N6
  - Prospecting: TN271.N5
- Nickel alloys
  - Electronics: TK7871.15.N53
- Nickel-cadmium batteries
  - Electricity production: TK2945.N52
- Nickel chromium alloys
  - Metallurgy: TN757.N6
- Nickel-hydrogen batteries
  - Electricity production: TK2945.N53
- Nickel plating
  - Electroplating: TS690
- Nickel steel
  - Engineering materials: TA479.N5
  - Metallurgy: TN757.N5
- Nickel-titanium alloys
  - Engineering materials: TA480.N63
- Nicotine
  - Tobacco manufacturing: TS2255
- Night flying
  - Airplanes: TL711.N5
- Night people
  - Photographic portraits: TR681.N54
- Night views
  - Photography: TR610
- Nik Software HDR Efex Pro:
  - TR267.5.N56
- Nikon cameras
  - Photography: TR263.N5
- Niobium: TN490.N65
  - Chemical technology: TP245.N7
  - Engineering materials: TA480.N65
  - Metallurgy: TN799.N7
- Nissan trucks: TL230.5.N57
- Niter
  - Inorganic chemicals: TP238
- Nitrates
  - Effect on food: TX572.N5
  - Mining engineering: TN911
  - Salts: TP237+
- Nitration
  - Chemical engineering: TP156.N5
- Nitric acid
  - Chemicals: TP217.N5
- Nitrides
  - Electronics: TK7871.15.N57
  - Engineering materials: TA455.N5
- Nitriding
  - Steel metallurgy: TN752.C3
- Nitrification
  - Water treatment and conditioning: TD468
- Nitrites
  - Effect on food: TX572.N5
- Nitrocellulose
  - Chemical technology: TP248.N7
- Nitrocellulose compounds
  - Explosives: TP276
- Nitrogen
  - Chemical technology: TP245.N8
  - Environmental pollutants: TD196.N55
  - Fertilizers: TP963.4.N5
  - Industrial electrochemistry: TP261.N7
  - Metallurgy: TN757.N66
  - Sewage treatment: TD758.5.N58
  - Water pollutants: TD427.N5
- Nitrogen compounds
  - Chemical technology: TP248.N8
  - Environmental pollutants: TD196.N55
  - Explosives: TP290.N53
  - Water pollutants: TD427.N5
- Nitrogen, Liquid, automobiles:
  - TL229.L56
- Nitrogen oxides
  - Air pollutants: TD885.5.N5
- Nitroglycerine compounds
  - Explosives: TP285
- Nobel: TP268.5.N7
- Nodular iron
  - Metallurgy: TN719.5
- Noise
  - Aerodynamics: TL574.N6
  - Air conditioning: TH7687.5
  - Aircraft propellers: TL706.N6
  - Airplanes: TL671.65
  - Airports: TL725.3.N6
  - Electronic circuits: TK7867.5
  - Environmental engineering: TD891+
  - Motor vehicle dynamics: TL246

## INDEX

- Noise
  - Turbines: TJ267.5.N5
- Noise generators
  - Electronics: TK7872.N6
- Noise in buildings
  - Building construction: TH1725
- Noise in machinery
  - Mechanical engineering: TJ179
- Noise measurement: TD894
- Nomads
  - Photographic portraits: TR681.N66
- Non-automatic electrolytic telegraphs: TK5515
- Nonalcoholic beverages: TP620+
- Noncarbonated fruit beverages: TP656+
- Nonconvex programming
  - Industrial engineering: T57.817
- Nondestructive tests
  - Testing of materials: TA417.2+
- Nonferrous metal industries
  - Electric power: TK4035.N6
  - Environmental effects: TD195.N65
- Nonferrous metals
  - Assaying: TN580.N6
  - Engineering and construction: TA479.3
  - Manufactures: TS370+
  - Metallurgy: TN758+
  - Ore dressing and milling: TN538.N6
- Nonlinear control systems
  - Mechanical engineering: TJ220.3
- Nonlinear programming
  - Chemical process control: TP155.75
  - Industrial engineering: T57.8+
- Nonmetallic bearings
  - Machinery: TJ1072+
- Nonmetallic materials
  - Engineering materials: TA418.95+
- Nonmetallic minerals
  - Mining engineering: TN799.5+
  - Prospecting: TN271.N63
- Nonnutritive sweeteners
  - Flavoring aids: TP422+
- Nonpoint source pollution
  - Water pollution: TD424.8
- Nonrigid airships: TL656.2
- Nonwoven fabrics
  - Textile fiber: TS1828+
- Noodles
  - Cooking: TX809.N65
- Nori
  - Food values: TX558.N6
- Normal numbers
  - Engineering mathematics: TA347.N6
- Normandy cooking: TX719.2.N67
- Nortel: TK5105.8.N63
- Northern style cooking
  - Italian: TX723.2.N65
- Notch effect
  - Plastic properties and tests: TA418.17
- Notions industry: TS2301.N5
- Novell E-guide: TK5105.885.N68
- Novell Net publisher
  - Web authoring software: TK5105.8885.N62
- Novell Netware networks: TK5105.8.N65
- Novelties industry
  - Manufactures: TS2301.N55
- Nozzle forms
  - Fire extinction: TH9323
- Nozzles
  - Aeronautical research: TL567.N6
  - Chemical technology: TP159.N6
  - Fire extinction: TH9380
  - Hydrodynamics: TC173
  - Jet engines: TL709.5.N68
  - Rockets: TL784.N65
  - Turbines: TJ267.5.N6
- Nuclear counters
  - Nuclear engineering: TK9180
- Nuclear electric powerplants
  - Space vehicles: TL1102.N8
- Nuclear engineering: TK9001+
- Nuclear engineering as a profession: TK9155.5
- Nuclear facilities
  - Air pollution: TD888.N8
  - Environmental effects: TD195.N83
  - Fire prevention and extinction: TH9445.N83
  - Ventilation: TH7684.N83

## INDEX

Nuclear locomotives: TJ623  
Nuclear power piping  
  Nuclear reactors: TK9211.7  
Nuclear power plants: TK1341+  
  Airplanes: TL708+  
  Fire prevention and extinction:  
    TH9445.A85  
  Water pollution: TD428.A86  
Nuclear pressure vessels  
  Nuclear reactors: TK9211.5  
Nuclear propulsion  
  Aeronautics: TL708+  
Nuclear propulsion systems: TL783.5  
Nuclear reactor instrumentation:  
  TK9178+  
Nuclear reactors  
  Engineering: TK9202+  
Nuclear reactors for propulsion:  
  TK9230  
Nuclear rockets: TL783.5  
Nuclear safety  
  Nuclear engineering: TK9152+  
Nuclear saline water conversion plants:  
  TD479.6  
Nuclear weapons plants  
  Environmental effects: TD195.N85  
Nucleation  
  Chemical engineering: TP156.N8  
Nucleotides  
  Chemical technology: TP248.N9  
Nude  
  Artistic photography: TR674+  
Numerical control  
  Machine tools: TJ1189  
Numerical methods  
  Engineering mathematics: TA335  
Nursing homes  
  Fire prevention: TH9445.A4  
Nut oils  
  Food values: TX560.N7  
Nut products  
  Food processing: TP439+  
Nut runners and setters  
  Machine shops: TJ1201.N8  
Nutcrackers  
  Cooking: TX657.N87

Nutrient removal  
  Sewage treatment: TD758.5.N58  
Nutrients  
  Water pollutants: TD427.N87  
Nutrition  
  Home economics: TX341+  
Nutrition policy: TX359  
Nuts  
  Cooking: TX814+  
  Food processing: TP439+  
  Food values: TX558.N8  
  Nutrition: TX399  
Nuts, Metal  
  Engineering materials: TA492.B63  
Nylon  
  Chemical technology: TP1180.P55

## O

Oakum  
  Textile fiber: TS1747.O3  
OASIS: TK5105.885.O37  
Oat bran  
  Cooking: TX809.O22  
  Food processing and manufacture:  
    TP435.O37  
Oat products  
  Food processing and manufacture:  
    TP435.O37  
Oats  
  Cooking: TX809.O23  
  Food values: TX558.O3  
Oblique wings  
  Airplanes: TL673.O23  
Oblong stone blocks: TE265  
Observers' handbooks  
  Artificial satellites: TL796.8  
Ocean, Discharge into  
  Sewage disposal: TD771.5  
Ocean engineering: TC1501+  
Ocean flying  
  Airplanes: TL711.O26  
Ocean mining: TN291.5  
  Environmental effects: TD195.O25  
Ocean thermal energy conversion:  
  TK1073



## INDEX

- Oceans
  - Sewage effluent discharge into: TD763+
- Ocher
  - Mining engineering: TN948.O2
- Odontographs
  - Mechanical movements: TJ186
- Odor control
  - Water purification: TD457
- Odors
  - Air pollutants: TD886
  - Wine and winemaking: TP548.5.F55
- Off-road trucks: TL235.6+
- Off-road vehicle driving: TL235.7
- Off-road vehicles: TL235.6+
- Office buildings
  - Air conditioning: TH7688.O4
  - Building operation and housekeeping: TX980
  - Construction: TH4311+
  - Electric lighting: TK4399.O35
  - Energy conservation: TJ163.5.O35
  - Environmental effects: TD195.H67
  - Fire prevention and extinction: TH9445.O4
  - Heating and ventilation: TH7392.O35
  - Plumbing: TH6515.O3
  - Sanitary engineering: TH6057.O4
- Office organization
  - Telegraph enterprises: TK5285+
  - Telephone enterprises: TK6185+
- Office records
  - Management of engineering works: TA190.5
- Office systems
  - Management of engineering works: TA190.5
- Offices
  - House remodeling: TH4816.3.O34
  - Noise control: TD893.6.O34
- Offshore oil industry
  - Water pollution: TD428.O33
- Offshore structures
  - Air conditioning: TH7688.O44
  - Fire prevention and extinction: TH9445.O43
  - Ocean engineering: TC1665+
- Offshore well drilling
  - Petroleum engineering: TN871.3
- Ogee wings
  - Airplanes: TL673.O4
- Ohmmeters
  - Electric meters: TK311
- Oil
  - Gas manufacture: TP751.7
  - Hazardous substances and their disposal: TD1066.O55
  - Insulating material: TK3441.O5
  - Sewage treatment: TD758.5.O37
- Oil analysis
  - Petroleum refining: TP691
- Oil burning installations
  - Furnaces: TJ326
- Oil companies outside of United States: TN879
- Oil filters
  - Aircraft engines: TL702.O55
- Oil fuels
  - Central heating: TH7466.O6
- Oil gas
  - Petroleum products: TP692.4.O3
- Oil gasification: TP759
- Oil handling and storage: TP692.5
- Oil heating of buildings: TH7402+
- Oil hydraulic machinery: TJ843
- Oil hydraulics: TJ843
- Oil industries
  - Waste control: TD899.O54
- Oil inspection
  - Petroleum refining: TP691
- Oil mist lubrication
  - Mechanical engineering: TJ1073.6
- Oil pollution of soils: TD879.P4
- Oil processes
  - Photography: TR443
- Oil sands
  - Petroleum geology: TN870.54
- Oil sands extraction plants
  - Air pollution: TD888.O35
  - Water pollution: TD428.O35
- Oil separators
  - Steam powerplants: TJ444
- Oil-shale industry
  - Environmental effects: TD195.O4

## INDEX

- Oil shales
  - Mining engineering: TN858+
- Oil-soluble preservatives
  - Preservation of wood: TA424.6.O4
- Oil standards
  - Petroleum refining: TP691
- Oil storage tanks
  - Fire prevention and extinction: TH9445.O55
- Oil stoves
  - Convective heating: TH7449+
  - Cooking: TX657.S8
- Oil strainers
  - Tribology: TJ1081
- Oil system
  - Gasoline automobiles: TL214.O5
- Oil testing
  - Petroleum refining: TP691
- Oilcloth
  - Floor covering: TS1779.O5
- Oilfeeders
  - Tribology: TJ1079
- Oils
  - Chemical technology: TP669+
  - Food values: TX560.O3
  - Hairdressing: TT969
- Oils and fats, Edible
  - Condiments: TX407.O34
- Okra
  - Cooking: TX803.O37
- Older people
  - Nutrition: TX361.A3
  - Photographic portraits: TR681.A35
- Olefins
  - Chemical technology: TP248.A554
- Olive butter
  - Cooking: TX819.O4
- Olive oil
  - Chemical technology: TP683
  - Cooking: TX819.O42
  - Food values: TX560.O4
- Olives
  - Cooking: TX813.O4
  - Food processing and manufacture: TP441.O4
  - Food values: TX558.O5
- Olympus (Artificial satellite): TK5104.2.O49
- Olympus camera
  - Photography: TR263.O4
- OMEGA: TK5105.885.O53
- Omnirange system
  - Aeronautical navigation equipment: TL696.O5
- One-dish meals: TX840.O53
- One-pipe systems
  - House drainage: TH6602
  - Low-pressure hot water heating: TH7525
  - Steam heating: TH7567
- Onions
  - Cooking: TX803.O5
  - Food processing and manufacture: TP444.O5
- Opa
  - Web authoring software: TK5105.8885.O63
- Opals
  - Jewelry work: TS755.O73
  - Mineral industries: TN997.O7
- Open air views
  - Photographic lighting: TR615
- Open and enclosed arcs
  - Electric lighting: TK4322
- Open channels
  - Hydrodynamics: TC175+
- Open Document Architecture
  - Computer network protocols: TK5105.577
- Open dumps
  - Municipal refuse: TD795+
- Open fires
  - Heating of buildings: TH7421+
- Open hearth process
  - Steel metallurgy: TN740+
- Open Shortest Path First
  - Computer network protocols: TK5105.578
- Open Systems Interconnect
  - Computer networks: TK5105.58
- Open working
  - Mining: TN291

## INDEX

- Opening and closing system
  - Aircraft engines: TL702.V3
- Opera (Internet browsers):
  - TK5105.883.O65
- Operating environment
  - Electronics: TK7870.24+
- Operation and management
  - Electric railways: TF960+
  - High speed ground transportation:
    - TF1500+
- Operation sequence analysis
  - Manufacturing engineering: TS178.7
- Operational amplifiers: TK7871.58.O6
- Operations, Contractors': TA201+
- Operations management: TS155+
- Operations research
  - Industrial engineering: T57.6+
- Opposed piston engines: TJ779.2
- Optic systems
  - Telegraph: TK5515
- Optical amplifiers: TK8360.L48
- Optical antennas
  - Optoelectronic devices: TK8360.O65
- Optical character recognition: TA1640
- Optical characterization
  - Testing of materials: TA417.43
- Optical coatings
  - Optical instruments: TS517.2
- Optical communications
  - Electrical engineering: TK5103.59+
- Optical data processing: TA1630+
- Optical data storage: TA1635
- Optical detectors
  - Electronics: TK8360.O67
- Optical devices, Neutron: TA1773
- Optical equipment
  - Aeronautics: TL697.O65
  - Computer engineering: TK7895.O6
  - Radar: TK6590.O67
  - Space vehicles: TL1200
- Optical fiber communication
  - Telecommunication: TK5103.592.F52
- Optical fiber detectors: TA1815
- Optical fiber subscriber loops
  - Telecommunication: TK5103.592.O68
- Optical fibers
  - Electrical engineering: TK8306
- Optical gyroscope
  - Aeronautical instruments: TL589.2.O6
- Optical instruments
  - Manufactures: TS510+
- Optical isomers
  - Biotechnology: TP248.65.O65
- Optical MEMS
  - Electronics: TK8360.O68
- Optical pattern recognition: TA1650+
- Optical properties
  - Engineering materials: TA418.62
- Optical radar: TK6592.O6
- Optical surface preparation
  - Instrument manufacture: TS517
- Optical tests
  - Engineering materials: TA418.62
- Optical tweezers
  - Electronics: TK8360.O69
- Optical wave guides: TK8305+
- Optics, Applied: TA1501+
- Optics, Integrated
  - Applied optics: TA1660
- Optima automobile: TL215.O68
- Optimization, Structural
  - Structural engineering: TA658.8
- Optoelectronic devices
  - Control engineering: TJ223.P5
  - Electronics: TK8300+
- Optoelectronics: TA1750+
- Optofluidics: TJ853.4.O68
- Optomechanical systems, Micro-
  - Electronics: TK8360.O68
- Oracle Portal
  - Web authoring software:
    - TK5105.8885.O7
- Oracle WebLogic server
  - Web authoring software:
    - TK5105.8885.O75
- Orange juice: TP562.5.O73
- Orange oil
  - Organic chemical industries:
    - TP959.O7
- Oranges
  - Cooking: TX813.O6
  - Food values: TX558.O7
- Orbital mechanics: TL1050+

## INDEX

- Orbital rendezvous
  - Space vehicles: TL1095
- Orbital transfer
  - Space navigation: TL1075+
- Orchids
  - Nature photography: TR726.O73
- Ordinary telegraph system: TK5523
- Ore cars: TN342
  - Railway equipment: TF479
- Ore deposits
  - Mining: TN400+
- Ore dressing and milling: TN496+
- Ore-dressing plants: TN504
  - Dust removal: TH7697.O7
  - Electric power: TK4035.O7
- Ores
  - Analysis: TN580.A+
  - Sampling: TN560
- Organic chemical industries: TP950+
- Organic chemicals: TP247.A1+
- Organic compounds
  - Air pollutants: TD885.5.O74
  - Biotechnology: TP248.65.O73
  - Environmental pollutants: TD196.O73
  - Hazardous waste disposal: TD1066.O73
  - Sewage treatment: TD758.5.O75
  - Soil pollutants: TD879.O73
  - Water pollutants: TD427.O7
- Organic compounds, Halogen
  - Environmental pollutants: TD196.H35
- Organic moderated reactors
  - Nuclear engineering: TK9203.O7
- Organic semiconductors: TK7871.99.O74
- Organic wastes
  - Waste disposal: TD804+
- Organic wines
  - Wine and winemaking: TP548.6.O74
- Organization
  - Industrial research: T175.5
- Organization of staff and force
  - Railway operation: TF510+
- Organohalogen compounds
  - Waste disposal: TD812.5.O73
- Organolead compounds
  - Environmental pollutants: TD196.O75
- Organometallic compounds
  - Electronics: TK7871.15.O7
  - Environmental pollutants: TD196.O76
- Oriental rugs
  - Textile industries: TS1778
- Orienting mechanisms
  - Assembling machines: TJ1317.5
- Orifices
  - Hydrodynamics: TC173
- Origami
  - Decorative crafts: TT872.5
- Ornamental bridges: TG430
- Ornamental glass in buildings: TP863+
- Ornamental glazing
  - Decorative furnishings: TH8271+
- Ornamental lathework: TT203
- Ornamental stones
  - Mining engineering: TN950+
- Ornaments
  - Hairwork: TT976
- Ornithopters: TL717
- Oroville Dam: TC557.C3O76
- Orthochromatic photography: TR453
- Orthogonal frequency division
  - multiplexing
  - Wireless communication systems: TK5103.484
- Orthographic projection
  - Mechanical drawing: T363
- Oscillations
  - Aerodynamics: TL574.S7
- Oscillators
  - Electronics: TK7872.O7
  - Radar: TK6590.O7
  - Radio: TK6565.O7
  - Television: TK6655.O7
- Oscillographs
  - Electrical engineering: TK381
- Oscilloscopes
  - Electronic instruments: TK7878.7
- Osmium
  - Chemical technology: TP245.O7
- Osmosis
  - Chemical engineering: TP156.O7
- Ostrich
  - Cooking: TX750.5.O77
- Outdoor cooking: TX823

## INDEX

Outdoor furniture  
  Woodworking: TT197.5.O9  
Outdoor photography: TR659.5  
Outer space  
  Mining: TN291.3+  
Outfall sewers: TD711  
Outhouses  
  Building construction: TH4975  
Outlet stores  
  Consumer education: TX335+  
Ovens  
  Cooking: TX657.O57+  
Over-the-horizon radar: TK6592.O94  
Overcoats  
  Men's tailoring: TT600  
Overhang  
  Airplanes: TL673.O8  
Overhead lines  
  Electric power: TK3231+  
  Telegraph: TK5452+  
  Telephone connections: TK6352  
Overhead projectors  
  Photography: TR508  
Overhead systems  
  Low-pressure hot water heating:  
    TH7525  
  Steam heating: TH7567  
Overlays  
  Highway maintenance: TE220.3  
Overshot water wheels: TJ862  
Overwater flying  
  Airplanes: TL711.O26  
Oxalic acid  
  Chemical technology: TP248.O9  
Oxidation  
  Chemical engineering: TP156.O9  
  Pollution control methods: TD192.45  
  Sewage disposal: TD758  
Oxidation ponds  
  Sewage treatment: TD746.5  
Oxidizing agents  
  Chemical technology: TP159.O9  
  Environmental pollutants: TD196.O95  
Oxyacetylene welding: TS228+  
Oxygen  
  Chemical technology: TP245.O9  
Explosives: TP290.L5

Oxygen  
  Fire prevention and extinction:  
    TH9446.O95  
  Industrial electrochemistry: TP261.O9  
Oxygen cutting  
  Welding: TS228.2  
Oxygen equipment  
  Airplanes: TL697.O8  
Oxygen steelmaking: TN747  
Oxygenated diesel fuels: TP359.O98  
Oysters  
  Cooking: TX754.O98  
Ozokerite  
  Mineral oils and waxes: TP695  
  Mining engineering: TN857  
Ozone  
  Air pollutants: TD885.5.O85  
  Chemical technology: TP245.O9  
  Ventilation of buildings: TH7657  
Ozone-depleting substances  
  Air pollutants: TD887.O95  
Ozone treatment  
  Water purification: TD461  
Ozotype  
  Photography: TR433

## P

Pacific Northwest style cooking:  
  TX715.2.P32  
Pacific submarine telegraph: TK5613  
Package goods industry  
  Energy conservation: TJ163.5.P33  
  Environmental effects: TD195.P26  
Packaging  
  Food processing and manufacture:  
    TP374+  
  Manufactures: TS195+  
Packaging waste  
  Waste disposal: TD797.9+  
Packed towers  
  Chemical technology: TP159.P3  
Packet switching: TK5105.3+  
Packet transmission  
  Radio: TK6562.P32  
Packet transport networks: TK5105.383

## INDEX

- Packing
  - Machinery: TJ246
  - Plastics: TP1145
  - Steam engines: TJ529
- Packing for shipment: TS198.5+
- Packinghouses
  - Air conditioning: TH7688.P3
  - Building construction: TH4534
  - Equipment: TS1973
  - Heating and ventilation: TH7392.P33
  - Waste control: TD899.M4
- PACSAT (Artificial satellite):
  - TK5104.2.P33
- Padlocks
  - Locksmithing: TS531.5
- Page turners industry: TS2301.P2
- PageMill
  - Web authoring software:
    - TK5105.8885.A36
- Pagodas
  - Building construction: TH4224
- Pail systems
  - Sewage disposal: TD780
- Paint analysis: TP936.5
- Paint grinding machines: TP937.5
- Paint industry
  - Environmental effects: TD195.P35
  - Waste control: TD899.P25
- Paint machinery: TP937.5
- Paint mixing machines: TP937.5
- Paint removers
  - Chemical technology: TP937.8
- Paint shops
  - Fire prevention and extinction:
    - TH9445.P3
  - Handicrafts: TT305.3
- Paint testing: TP936.5
- Painters' materials: TT324
- Painting
  - Buildings: TT320+
  - Decoys: TT199.75
  - Handicrafts: TT300+
  - Metal finishing: TS698
  - Metal finishing arts: TT382.4
  - Motor vehicles: TL255.2
- Painting, Industrial
  - Handicrafts: TT300+
- Paintings
  - Photography of art: TR658
- Paintmixing
  - Handicrafts: TT310
- Paints
  - Chemical technology: TP934+
  - Space vehicles: TL954.P35
- PaintShop Pro: TR267.5.P35
- Palapa project
  - Artificial satellites: TK5104.2.P35
- Palladium
  - Chemical technology: TP245.P2
  - Engineering materials: TA480.P35
  - Environmental pollutants: TD196.P28
  - Metallography: TN693.P3
  - Metallurgy: TN799.P34
- Pallets
  - Packaging: TS198.6.P3
- Palm frond weaving
  - Decorative crafts: TT877.5
- Palm oil
  - Chemical technology: TP684.P3
- Palm oil industry
  - Environmental effects: TD195.P36
- Palm products industry: TS2301.P24
- Palygorskite
  - Mining engineering: TN948.P25
- Panaflex motion picture camera:
  - TR883.P36
- Panama affair: TC780
- Panama Canal
  - Construction and maintenance:
    - TC774+
  - Hydraulic engineering: TC774+
- Panama Exposition: TC781+
- Pancakes
  - Cooking: TX770.P34
- Panel type electric radiant heating
  - Building construction: TH7434.7
- Paneling
  - Wooden construction: TA666.5.P35
- Panels
  - Radio: TK6565.P3
  - Reinforced concrete construction:
    - TA683.5.P35
  - Wooden construction: TA666.5.P35

## INDEX

- Panoramic receivers
  - Radio apparatus: TK6564.P35
- Panoramic views
  - Artistic photography: TR661
- Pantograph
  - Mechanical engineering: TJ181.9
- Pantry plumbing
  - Building construction: TH6507+
- Papaya
  - Cooking: TX813.P3
- Paper
  - Insulating material: TK3441.P25
  - Packaging materials: TS198.3.P3
- Paper airplanes
  - Aeronautical models: TL778
- Paper-bag cooking: TX833
- Paper boxes
  - Manufactures: TS1200.A1+
- Paper characteristics
  - Paper manufacture: TS1121
- Paper coatings: TS1118.F5
- Paper-cutting machines: TS1118.C8
- Paper dolls
  - Handicrafts: TT175+
- Paper finishing: TS1118.F5
- Paper flowers
  - Decorative crafts: TT892
- Paper handling
  - Papermills: TS1116.6
- Paper industry
  - Electric power: TK4035.P3
  - Noise control: TD893.6.P35
  - Waste control: TD899.P3
  - Water pollution: TD428.P35
- Paper manufacture: TS1080+
  - Chemistry: TS1120
- Paper mills
  - Air conditioning: TH7688.F27
  - Air pollution: TD888.P8
  - Building construction: TH4536
  - Energy conservation: TJ163.5.P37
  - Environmental effects: TD195.P37
  - Paper manufacture: TS1116+
- Paper properties
  - Paper manufacture: TS1121
- Paper recycling
  - Paper manufacture: TS1120.5
- Paper ribbon work
  - Textile arts: TT850.5
- Paper sizing: TS1118.S5
- Paper toys
  - Handicrafts: TT174.5.P3
- Paper types
  - Paper manufacture: TS1124+
- Paper waste
  - Waste disposal: TD805
- Paperboard: TS1135+
  - Housing material: TH4818.P3
  - Packaging materials: TS198.3.P3
- Paperboard, Corrugated: TS1138
- Paperhanging
  - Building decoration: TH8441
  - Wall decoration: TH8423+
- Papers
  - Sensitive surfaces
    - Photography: TR285
- Papers, Special
  - Paper manufacture: TS1124+
- Paperwork
  - Decorative crafts: TT870+
- Papier mâché: TS1155
  - Building construction: TH1550
- Papier-mâché craft
  - Decorative crafts: TT871
- Papiers collés
  - Crafts: TT910
- Papyrus: TS1125
- Parachutes: TL750+
- Parachutes to carry airplanes: TL758
- Paraffin
  - Mineral oils and waxes: TP693
- Paraffin, Natural
  - Mining engineering: TN857
- Paraffins
  - Petroleum products: TP692.4.P3
- Parakites: TL759.6.P3
- Parallel circuit
  - Electrical engineering: TK454.15.P37
- Parallel driving
  - Alternating-current machinery:
    - TK2715
- Parallel kinematic machines
  - Manufactures: TS155.67

## INDEX

- Parallel processing
  - Computer-aided engineering: TA345.5.P37
- Parallel robots
  - Mechanical engineering: TJ211.4152
- Parametric amplifiers: TK7871.24
- Parametrons
  - Computer engineering: TK7895.P3
- Parasols
  - Textile industries: TS1865
- Parawings
  - Airplanes: TL673.P37
- Parchment: TS1165
- Parers, Apple
  - Cooking: TX657.A66
- Park bridges: TG430
- Park buildings
  - Building construction: TH4711
- Parking facilities
  - Motor vehicles: TL175
- Parking garages: TL175
- Parking lots: TL175
- Parks
  - Sanitary engineering: TD931
- Parlor cars
  - Railway equipment: TF457
- Parquet floors: TH2529.W6
- Particle accelerators
  - Nuclear engineering: TK9340
- Particle board
  - Wood products: TS875
- Particle counting
  - Water quality: TD368
- Particle size determination
  - Engineering materials: TA418.8
- Particle technology
  - Chemical engineering: TP156.P3
- Particles
  - Engineering materials: TA418.78+
  - Water pollutants: TD427.P27
- Particulate matter
  - Air pollutants: TD884.5
- Partitions
  - Building design and construction: TH2541+
- Parts catalogs
  - Motor vehicles: TL159+
- Party decorations
  - Decorative crafts: TT900.P3
- Passementerie
  - Silk manufactures: TS1687
- Passenger accommodations
  - Airports: TL725.3.P3
- Passenger cars
  - Railway equipment: TF455+
- Passenger conveyors: TJ1400
- Passenger depots
  - Railway structures: TF300+
- Passenger planes: TL685.4+
- Passenger tickets
  - Railway operation: TF654
- Passenger traffic
  - Railway operation: TF653
- Passenger trains: TF570+
- Passion fruit
  - Cooking: TX813.P34
- Passive optical networks:
  - TK5103.592.P38
- Passivity-based control
  - Mechanical engineering: TJ221
- Passover
  - Cooking: TX739.2.P37
- Pasta
  - Cooking: TX809.M17
  - Food processing and manufacture: TP435.M3
- Pasta products
  - Cereals: TX394.5
- Pasteboard: TS1135+
- Pastes
  - Organic chemical industries: TP970
- Pasteurization, Dense phase carbon dioxide
  - Food preservation: TP371.46
- Pastry
  - Cooking: TX773
- Patchwork
  - Handicrafts: TT835
- Patent leather
  - Manufactures: TS970
- Patent solicitors, Publications of: T339
- Patents
  - Aeronautical engineering: TL513
  - Aeronautics: TL513



## INDEX

### Patents

- Astronautics: TL788.35
- Biotechnology: TP248.175
- Building laws: TH257
- Chemicals: TP210
- Cycles: TL437
- Electrical engineering: TK257
- Electronics: TK7850.A1+
- Glass and glassmaking: TP858
- Iron and steel
  - Metal manufactures: TS307
- Mechanical engineering: TJ758
- Metallurgy: TN708
- Motor vehicles: TL280
- Motorcycles: TL437
- Nuclear engineering: TK9152.5
- Ocean engineering: TC1660
- Pet food industry: TS2287
- Petroleum refining: TP690.5
- Plastics: TP1114
- Radio: TK6559

### Patios

- Building construction: TH4970

### Pattern recognition, Optical: TA1650+

### Pattern recognition systems

- Electronics: TK7882.P3

### Patternmaking

- Dressmaking: TT520
- Men's tailoring: TT590
- Metal manufactures: TS240

### Patterns

- Children's clothing: TT640
- Decorative needlework: TT753+

### Pavements

- Airports: TL725.3.P35

### Pavements and paved roads

- Highway engineering: TE250+

### Pavilions

- Exhibitions: T396.5

### PCMCIA cards

- Computer engineering: TK7895.P38

### Peach palm

- Cooking: TX813.P38

### Peaches

- Cooking: TX813.P4
- Food processing and manufacture:
  - TP441.P4

### Peaches

- Food values: TX558.P3

### Peanut butter: TP438.P4

- Cooking: TX814.5.P38

### Peanut oil

- Chemical technology: TP684.P4

### Peanuts: TP438.P4

- Cooking: TX803.P35

### Pearls

- Jewelry work: TS755.P3+

### Pears

- Cooking: TX813.P43

### Peas

- Cooking: TX803.P4
- Food processing and manufacture:
  - TP444.P4
- Food values: TX558.P35

### Peat

- Air pollutants: TD887.P34
- Engineering materials: TA455.P4
- Fire prevention and extinction:
  - TH9446.P38
- Fuel: TP340
- Mining: TN837+
- Prospecting: TN271.P27

### Peat industry

- Electric power: TK4035.P33

### Peat machinery: TN841

### Peat mining

- Environmental effects: TD195.P38

### Peat mull: TN842

### Peat straw: TN842

### Pecans

- Cooking: TX814.2.P4
- Food processing and manufacture:
  - TP439.5.P42

### Pectic substances

- Food constituent: TX553.P4

### Pectin

- Chemical technology: TP248.P4

### Pedal cars: TL483

### Pedestrian areas

- Electric lighting: TK4399.P44

### Pedestrian facilities

- Pavements: TE279.5+

### Peelers

- Cooking: TX657.A66

## INDEX

- Peening
  - Manufactures: TS207.3.P44
- Peer-to-peer architecture
  - Electrical engineering: TK5105.525
- Pegmatites
  - Mining engineering: TN948.P38
  - Prospecting: TN271.P3
- Pelletizing
  - Chemical engineering: TP156.P4
- Pelton water wheels: TJ866
- Pencils
  - Stationery: TS1268
- Penetrant inspections
  - Testing of materials: TA417.55
- Penetration mechanics: TA354.5
- Pennsylvania-Dutch cookbooks: TX721
- Pens
  - Stationery: TS1262+
- Penstocks
  - Hydraulic powerplants: TJ849
- Pentachlorophenol
  - Industrial waste disposal: TD898.8.P45
- Pentax camera
  - Photography: TR263.P4
- Pentodes: TK7871.79.P4
- Pentosan
  - Chemical technology: TP248.P44
- People with disabilities
  - Clothing: TT648
  - Nutrition: TX361.H35
  - Photographic portraits: TR681.H35
- People with disabilities, Access for
  - Transportation engineering: TA1285
- Pepper
  - Condiments, spices, etc.: TX407.P4
  - Cooking: TX819.P3
- Pepper (Spice): TX407.P4
- Peppermint
  - In plumbing testing: TH6617
- Peppermint oil
  - Organic chemical industries: TP959.P4
- Peppers
  - Cooking: TX803.P46
  - Nutrition: TX401.2.P47
- Perceptrons
  - Control engineering: TJ223.P4
- Perchlorates
  - Water pollutants: TD427.P33
- Perchloric acid: TP217.P4
- Perforating machinery
  - Machine shops: TJ1250+
- Performance
  - Aircraft engines: TL701.6
  - Aircraft propellers: TL706.P4
  - Airplanes: TL671.4
  - Airships: TL660.3
  - Pavements and paved roads: TE251.5
- Performance-based navigation
  - Air navigation: TL588.7
- Perfumes
  - Organic chemical technology: TP983+
- Perilla oil
  - Chemical technology: TP684.P47
- Perlite
  - Engineering materials: TA455.P45
  - Mining engineering: TN948.P4
- Permanent makeup: TT959
- Permanent way
  - Railway construction: TF240+, TF250+
- Permits
  - Building construction: TH11
- Peroxides
  - Chemical technology: TP248.P46
  - Explosives: TP290.P5
- Peroxyacetyl nitrate
  - Environmental pollutants: TD196.P36
- Perpetual motion
  - Mechanical engineering: TJ181.3
- Perry (Cider): TP564.5
- Persimmons
  - Cooking: TX813.P45
- Personal area networks
  - Computer networks: TK5105.76
- Personal communication service systems
  - Wireless communication systems: TK5103.485
- Personal propulsion units: TL717.5

## INDEX

- Personal rapid transportation: TA1207
- Personal robotics
  - Mechanical engineering: TJ211.416
- Personnel management
  - Hotels, clubs, restaurants, etc.: TX911.3.P4
- Personnel, Manufacturing: TS155.4+
- Perspective projection
  - Mechanical drawing: T369
- PERT
  - Production control: TS158.2
- Pervaporation
  - Biotechnology: TP248.25.P44
- Pest control in buildings: TH9041
- Pesticide residues
  - Effect on food: TX571.P4
- Pesticides
  - Air pollutants: TD887.P45
  - Chemical technology: TP248.P47
  - Environmental pollutants: TD196.P38
  - Hazardous substances and their disposal: TD1066.P47
  - Soil pollutants: TD879.P37
  - Water pollutants: TD427.P35
- Pesticides industry
  - Waste control: TD899.P37
- Pestos
  - Cooking: TX819.P45
- Pests, Household: TX325
- Pet food industry: TS2284+
- Petrochemical industry
  - Environmental effects: TD195.P39
- Petroleum: TN860+
  - Environmental pollutants: TD196.P4
  - Fire prevention and extinction: TH9446.P4
  - Fuel: TP355
  - Prospecting: TN271.P4
  - Soil pollutants: TD879.P4
  - Water pollutants: TD427.P4
- Petroleum chemicals industry
  - Air pollution: TD888.P38
- Petroleum engineering: TN860+
  - Electric power: TK4035.P35
- Petroleum gas
  - Gas industry: TP761.P4
- Petroleum geology: TN870.5+
- Petroleum industry
  - Environmental effects: TD195.P4
  - Waste control: TD899.P4
- Petroleum pipelines: TN879.5+
  - Fire prevention and extinction: TH9445.P38
- Petroleum products
  - Chemical technology: TP690+
- Petroleum refineries
  - Air pollution: TD888.P4
  - Energy conservation: TJ163.5.P47
  - Fire prevention and extinction: TH9445.P4
  - Noise control: TD893.6.P47
  - Water pollution: TD428.P47
- Petroleum refining
  - Chemical technology: TP690+
- Petroleum supplies
  - Petroleum engineering: TN871.5
- Petroleum waste
  - Waste disposal: TD800
- Pewter craft: TT266.3
- Phantom circuits
  - Telephone: TK6343
- Pharmaceutical industry
  - Water pollution: TD428.P54
- Phase-locked loops
  - Electronics: TK7872.P38
- Phase meters
  - Electrical engineering: TK381
- Phase partition
  - Biotechnology: TP248.25.P53
- Phase shifters
  - Electronics: TK7872.P39
- Pheasant
  - Cooking: TX750.5.P45
- Phenol products
  - Chemical technology: TP248.P5
- Phenolic resins
  - Plastics: TP1180.P39
- Phenolite
  - Plastics: TP1180.P4
- Phenols
  - Food constituents: TP453.P45
  - Sewage treatment: TD758.5.P53
  - Water pollutants: TD427.P53
- Philosophy of machinery: TJ14

## INDEX

- Phonograph industry: TS2301.P3
- Phosphate coating
  - Metal finishing: TS696
- Phosphate industry
  - Waste control: TD899.P45
- Phosphate mines and mining
  - Environmental effects: TD195.P46
- Phosphates
  - Environmental pollutants: TD196.P45
  - Mining engineering: TN913+
  - Ore dressing and milling: TN538.P43
  - Prospecting: TN271.P45
  - Water pollutants: TD427.P56
- Phosphatic fertilizer industry
  - Environmental effects: TD195.P47
- Phosphatides
  - Chemical technology: TP248.P55
- Phosphogypsum
  - Environmental pollutants: TD196.P46
- Phosphoric acid: TP217.P5
- Phosphoric acid industry
  - Waste control: TD899.P46
- Phosphors
  - Electrical engineering: TK454.4.P5
  - Electronics: TK7871.15.P4
- Phosphorus
  - Chemical technology: TP245.P5
  - Food constituent: TX553.P45
  - Industrial electrochemistry:
    - TP261.P48
  - Sewage treatment: TD758.5.P56
  - Water pollutants: TD427.P56
- Phosphorus compounds
  - Water pollutants: TD427.P56
- Photo CDs: TR502
- Photo-oleographs
  - Photographic processing: TR487
- Photoaquatint
  - Photography: TR445
- Photoceramics
  - Photographic processing: TR500
- Photochemical telegraph system:
  - TK5549
- Photochronograph
  - Cinematography: TR885
- Photoconductive cells: TK8330+
- Photocopying processes: TR824+
- Photodiodes: TK8312
- Photoelectric multipliers: TK8314
- Photoelectronic devices
  - Control engineering: TJ223.P5
  - Electronics: TK8300+
- Photoemissive tubes: TK8308+
- Photoenamels
  - Photographic processing: TR500
- Photoengraving
  - Photography: TR970
- Photogalvanography
  - Photography: TR990
- Photoglyptie
  - Photography: TR995
- Photogrammetry
  - Applied photography: TR693+
- Photograms
  - Artistic photography: TR688
- Photograph albums: TR501
- Photographers
  - Photographic portraits: TR681.P56
- Photographers' reference handbooks:
  - TR150
- Photographic accessories and apparatus: TR570
- Photographic amusements: TR148
- Photographic chemicals: TR210+
- Photographic chemistry: TR210+
  - Photography: TR200+
- Photographic criticism: TR187
- Photographic equipment
  - Collectors' manuals: TR6.5
  - Electric power: TK4035.P53
- Photographic image, Properties of:
  - TR222
- Photographic industry
  - Waste control: TD899.P48
- Photographic interpretation
  - Photography: TR810
- Photographic optics: TR220
- Photographic patterns: TR682
- Photographic physics: TR215+
- Photographic processes: TR200+
- Photographic processing: TR287+
- Photographic reproduction: TR824+
- Photographic triangulation: TA593.8+

## INDEX

- Photographic waste, Recovery of: TR225
- Photographs
  - Collectors' manuals: TR6.5
- Photographs on metal, glass, cloth, etc.
  - Photographic processing: TR495
- Photography: TR1+
  - Surveying: TA592+
- Photography as a profession: TR154
- Photography by animals: TR689
- Photography in criminology: TR822
- Photography in education: TR816
- Photography in engineering: TR702
- Photography in law: TR822
- Photography of airplanes: TR714
- Photography of art: TR657+
- Photography of automobiles: TR716
- Photography of colored objects
  - Photographic processes: TR453
- Photography of food: TR656.7
- Photography of handicraft: TR658.5+
- Photography of historic documents: TR825
- Photography of machinery: TR717+
- Photography of manuscripts: TR825
- Photography of railroads: TR715
- Photography of the grotesque: TR686
- Photography studios: TR550+
- Photogravure
  - Photography: TR980
- Photojournalism
  - Applied photography: TR820
- Photolithography
  - Photography: TR940+
- Photomechanical processes
  - Photography: TR925+
- Photomontage
  - Photography: TR685
- Photomultipliers: TK8314
- Photon propulsion systems: TL783.57
- Photon rockets: TL783.57
- Photonics: TA1501+
- Photoplasticity: TA418.15
- Photopotentiometer: TK8360.P5
- Photoresistors: TK8331
- Photoshop
  - Digital photography: TR267.5.A+
- Photosynthesis
  - Renewable energy sources: TJ811.8
- Phototelegraphy: TK6600
- Phototransistors: TK8332
- Phototubes: TK8308+
- Photovoltaic cells: TK8322
- Photovoltaic power generation
  - Solar energy: TK1087
- Photovoltaic power systems
  - Solar energy: TK1087
- Photoxylography
  - Photography: TR960
- Photozincography
  - Photography: TR955
- Phthalate esters
  - Environmental pollutants: TD196.P47
- Phthalic acid
  - Chemical technology: TP248.P6
- Phthalocyanins
  - Chemical technology: TP248.P62
- Physical education facilities
  - Electric lighting: TK4399.P5
- Physical metallurgy: TN689+
- Physical properties
  - Engineering materials: TA418.5+
- Physical requirements
  - Air pilots: TL555
- Physical tests
  - Soils surveys: TE208+
- Physics
  - Home economics: TX149
- Phytoremediation
  - Pollution control methods: TD192.75
  - Soil remediation: TD878.48
- Picasa: TR267.5.P53
- Pickles
  - Cooking: TX805
- Pickling
  - Food preservation: TP371.44
  - Metal finishing: TS654
- Picnic cooking: TX823
- Picric acid
  - Chemical technology: TP248.P65
- Picture frames
  - Decorative crafts: TT899.2
- Picture telegraphy: TK6600

## INDEX

- Picture transmission systems
  - Electrical engineering: TK5105.2
- Picture tubes
  - Television: TK6655.P5
- PID controllers
  - Control engineering: TJ223.P55
- Piers
  - Building design and construction: TH2140
  - Fire prevention and extinction: TH9445.P5
  - Harbor engineering: TC357
- Pies
  - Cooking: TX773
- Piezoelectric devices
  - Electronics: TK7872.P54
- Pig iron
  - Metallurgy: TN710+
- Pigeons
  - Food values: TX556.P6
- Piggyback trailers
  - Motor vehicles: TL297.6
- Piggyback trains: TF582
- Pigment processes
  - Photography: TR440
- Pigments
  - Chemical technology: TP934+
  - Mining engineering: TN948.P5
- Pike
  - Cooking: TX748.P54
- Pile-driving: TA780+
- Piles: TA780+
- Pillaring
  - Mining: TN289.8
- Pillow blocks
  - Machinery: TJ1065
- Pillowcases
  - Handicrafts: TT408
  - Home furnishings: TX315
- Pillows
  - Handicrafts: TT410
- Pilot balloons: TL630
- Pilot ejection seats
  - Airplanes: TL697.P5
- Pilot lights
  - Building gas supply: TH6887
- Piloting
  - Space vehicles: TL1090+
- Pin proportioning
  - Bridge design: TG301
- Piña cloth
  - Textile fiber: TS1544.P55
- Pincushions
  - Decorative crafts: TT899.3
- Pine
  - Woodpulp industry: TS1176.4.P5
- Pine cone craft
  - Decorative crafts: TT874.5
- Pine needle crafts: TT874
- Pine oil
  - Organic chemical industries: TP959.P5
- Pineapple
  - Food processing and manufacture: TP441.P54
- Pineapples
  - Cooking: TX813.P5
- Pinfire
  - Firearms: TS538.4
- Pinhole photography: TR268
- Pinot noir wines
  - Wine and winemaking: TP548.6.P56
- Pins
  - Fasteners: TJ1328
- Pins industry
  - Manufactures: TS2301.P5
- Pioneer project: TL789.8.U6P56
- Pipe
  - Cement manufacture: TP885.P5
  - Chemical technology: TP159.P5
- Pipe and fittings
  - Steam powerplants: TJ415+
- Pipe bending
  - Building construction: TH6294
- Pipe dampers
  - Warm-air heating: TH7627
- Pipe flanges
  - Steam powerplants: TJ421
- Pipe industry
  - Noise control: TD893.6.P55
- Pipefitting
  - Building construction: TH6703+
  - Building gas supply: TH6840

## INDEX

- Pipefitting
  - Plumbing work: TH6293+
- Pipefitting and plumbing
  - Building construction: TH6101+
- Pipefitting catalogs: TH6729
- Pipeline radio: TK6570.P5
- Pipelines
  - Electric power: TK4035.P55
  - Environmental effects: TD195.P5
  - Hydraulic machinery: TJ930+
  - Hydraulic powerplants: TJ849
  - Structural engineering: TA660.P55
- Pipes
  - Freezing and thawing: TH6685
  - Gas industry: TP757
  - Hydrodynamics: TC174
  - Metal manufactures: TS280+
  - Railway structures: TF290
- Pipes, Metal
  - Engineering and construction: TA492.P6
- Pipes of cement, concrete, and clay: TA447
- Pipes, Plastic: TP1185.P5
  - Engineering materials: TA448
- Pipes, Tobacco
  - Manufactures: TS2270
- Piping
  - Hot water heating: TH7543
  - Hydronic systems: TH7478
  - Steam heating: TH7593
  - Warm-air heating: TH7625
- Piping installation
  - Building gas supply: TH6840
  - Pipefitting: TH6703+
- Pisé building construction: TH1421
- Pistols
  - Manufactures: TS537
- Piston blowers
  - Pneumatic machinery: TJ963
- Piston pumps
  - Hydraulic machinery: TJ915
- Piston rings
  - Steam engines: TJ533
- Piston valve
  - Steam engines: TJ546
- Pistons
  - Aircraft engines: TL702.P5
  - Diesel engines: TJ798.5
  - Gas engines: TJ774
  - Gasoline automobiles: TL214.P57
  - Internal combustion engines: TJ788
  - Locomotives: TJ659
  - Steam engines: TJ533
- Pita bread
  - Cooking: TX770.P56
- Pitch
  - Aerodynamics: TL574.M6
  - Motor vehicle dynamics: TL245.2
- Pitch, Adjustable
  - Aircraft propellers: TL707.P5
- Pitch, Controllable
  - Aircraft propellers: TL707.P5
- Pivot bearings
  - Machinery: TJ1067
- Pizza
  - Cooking: TX770.P58
- Placer mining: TN421
- Plain bearings
  - Machinery: TJ1063
- Plan reading
  - Building construction: TH431
- Planar laser-induced fluorescence
  - Applied fluid mechanics: TA357.5.P58
- Plane table
  - Surveying instruments: TA571
- Planers
  - Machine shops: TJ1206
- Planes
  - Machine shops: TJ1201.P55
- Planetables
  - Aeronautical research: TL567.P6
- Planetary quarantine
  - Space vehicles: TL943
- Planimeters
  - Surveying: TA614
- Planing machines
  - Machine shops: TJ1205+
- Planing-mill products
  - Manufactures: TS878
- Planing mills
  - Wood products: TS850

## INDEX

- Plank roads
  - Unpaved roads: TE245
- Planned unit developments
  - Environmental effects: TD195.P516
- Planning for machinery
  - Manufacturing engineering: TS181+
- Plans
  - Photographic reproduction processes: TR920+
- Plant biotechnology: TP248.27.P55
- Plant design
  - Manufacturing engineering: TS177
- Plant engineering
  - Production management: TS184+
- Plant fibers
  - Engineering materials: TA455.P49
- Plant grounds
  - Plant engineering: TS190+
- Plant housekeeping
  - Plant engineering: TS193
- Plant layout
  - Manufacturing engineering: TS178+
- Plant lipids
  - Biotechnology: TP248.65.P53
- Plant maintenance
  - Plant engineering: TS192
- Plant performance monitoring
  - Plant engineering: TS194
- Plant service facilities
  - Plant engineering: TS189+
- Plant size
  - Manufacturing engineering: TS177.3
- Plant supervisors
  - Manufacturing personnel: TS155.4
- Plant utilities
  - Plant engineering: TS187
- Planters
  - Agricultural machinery: TJ1483
- Plants
  - Nature photography: TR724+
- Plasma
  - Chemical engineering: TP156.P5
- Plasma devices
  - Plasma engineering: TA2030
- Plasma dynamics, Applied: TA2001+
- Plasma-enhanced chemical vapor deposition
  - Metal finishing: TS695.15
- Plasma engineering: TA2001+
- Plasma jets
  - Chemical technology: TP159.P57
  - Metallurgical equipment: TN678
- Plasma propulsion systems: TL783.6
- Plasma rockets: TL783.6
- Plasma sheath effects
  - Astrionics: TL3028
- Plaster
  - Decorative furnishings: TH8135+
  - Housing material: TH4818.P53
- Plaster craft: TT295
- Plaster products
  - Chemical technology: TP888
- Plasterboard
  - Decorative furnishings: TH8139
- Plastering
  - Building construction: TH8120+
- Plastic analysis
  - Structural analysis: TA652
- Plastic bearings
  - Mechanical engineering: TJ1073.P6
- Plastic construction
  - Structural engineering: TA668
- Plastic craft: TT297+
- Plastic design
  - Structural engineering: TA658.6
- Plastic flooring: TH2529.P5
- Plastic foam
  - Handicrafts: TT297+
- Plastic furniture
  - Handicrafts: TT297.5
  - Plastic technology: TP1185.F8
- Plastic lenses: TS517.5.P5
- Plastic materials
  - Electronics: TK7871.15.P5
- Plastic pipes: TP1185.P5
  - Engineering materials: TA448
  - Plumbing: TH6330
- Plastic plants
  - Dust removal: TH7697.P5
- Plastic properties and tests: TA418.14+
- Plastic roofing
  - Building construction: TH2447



## INDEX

- Plastic scrap
  - Water pollutants: TD427.P62
- Plastic tubes
  - Plumbing: TH6330
- Plastic waste
  - Waste disposal: TD798
- Plasticizers
  - Chemical technology: TP247.7
- Plastics
  - Aeronautics: TL699.P6
  - Chemical technology: TP1101+
  - Effect on food: TX571.P63
  - Electrical engineering: TK454.4.P55
  - Engineering materials: TA455.P5+
  - Environmental pollutants: TD196.P5
  - Fire prevention and extinction:
    - TH9446.P55
  - Fire testing: TH9446.5.P45
  - Insulating material: TK3441.P55
  - Machine tools: TJ1194
  - Motor vehicle construction materials:
    - TL240.5.P42
  - Plumbing: TH6325+
- Plastics industry
  - Energy conservation: TJ163.5.P48
  - Environmental effects: TD195.P52
  - Waste control: TD899.P55
- Plastics (non-foil)
  - Packaging materials: TS198.3.P5
- Plastics plants
  - Chemical technology: TP1135
  - Fire prevention and extinction:
    - TH9445.P55
- Plate-bonds
  - Window and door openings: TH2261+
- Plate girder bridges: TG360
- Plate girders
  - Structural engineering: TA660.P59
- Plate glass
  - Glassmaking: TP860
- Plate towers
  - Chemical technology: TP159.P6
- Plates
  - Sensitive surfaces
    - Photography: TR281
  - Structural engineering: TA660.P6
- Plates, Folded
  - Structural engineering: TA660.P63
- Plates, Metal
  - Engineering and construction:
    - TA492.P7
- Plates, Twisted
  - Structural engineering: TA660.P65
- Platform systems, High altitude:
  - TK7871.67.H54
- Plating baths
  - Electroplating: TS672
- Platinum
  - Assaying: TN580.P7
  - Chemical technology: TP245.P7
  - Electroplating: TS692.P55
  - Manufactures: TS770
  - Metallography: TN693.P55
  - Metallurgy: TN799.P7
  - Ore deposits and mining: TN490.P7
  - Ore dressing and milling: TN538.P53
  - Prospecting: TN271.P56
- Platinum group
  - Electroplating: TS692.P56
  - Environmental pollutants: TD196.P53
  - Ore deposits and mining: TN490.P7
- Platinum salts
  - Photographic processes: TR420
- Playground equipment
  - Handicrafts: TT176
- Playhouses, Children's
  - Building construction: TH4967
- Pleasures of the table
  - Nutrition: TX631+
- Plexiglas
  - Plastics: TP1180.P5
- Pliers
  - Machine shops: TJ1201.T64
- Plotting
  - Railroad surveying: TF214
  - Surveying: TA611
- Plows
  - Agricultural machinery: TJ1482
- Plumbers' tools
  - Building construction: TH6299
- Plumbing and pipefitting
  - Building construction: TH6101+

## INDEX

- Plumbing fitting supplies
  - Building construction: TH6249+
- Plumbing fixtures supplies
  - Building construction: TH6249+
- Plumbing work
  - Building construction: TH6291+
- Plums
  - Cooking: TX813.P55
  - Food processing and manufacture: TP441.P55
- Plush
  - Silk manufactures: TS1680
- Plutonium
  - Metallurgy: TN799.P74
  - Radioactive waste disposal: TD898.7.P48
  - Water pollutants: TD427.P63
- Plutonium as fuel: TK9365
- Plywood
  - Aeronautics: TL699.W7
  - Wood products: TS870
- Plywood working
  - Woodworking: TT191
- Pneumatic control systems
  - Mechanical engineering: TJ219
- Pneumatic equipment
  - Aeronautics: TL697.P6
  - Airports: TL725.3.P55
- Pneumatic machinery
  - Mechanical engineering: TJ950+
- Pneumatic presses
  - Lifting machinery: TJ1465
- Pneumatic tools: TJ1005+
- Pneumatic tubes and carriers: TJ1015
- Pointing
  - Masonry construction: TH5371
- Pointing systems
  - Space vehicles: TL3270
- Points (English)
  - Railway construction: TF266+
- Poker players
  - Photographic portraits: TR681.P58
- Polarized-light photography: TR757
- Polaroid Land camera
  - Photography: TR263.P6
- Polders
  - Hydraulic engineering: TC343+
- Pole supports
  - Electric power: TK3243
- Poles
  - Electric power: TK3242
  - Reinforced concrete construction: TA683.5.P65
- Police radio: TK6570.P6
- Polishes
  - Abrading machinery: TJ1296+
  - Chemical technology: TP940
- Polishing
  - Optical instruments: TS517
- Political aspects
  - Hazardous substances and their disposal: TD1050.P64
  - Photography: TR184
- Politicians
  - Photographic portraits: TR681.P59
- Pollen
  - Air pollutants: TD887.P65
  - Food values: TX560.P6
- Pollock
  - Cooking: TX748.P64
- Pollution
  - Groundwater: TD426+
- Pollution, Air
  - Control: TD881+
- Pollution control devices
  - Gasoline automobiles: TL214.P6
- Pollution control methods
  - Environmental pollution: TD191.5+
- Pollution, Environmental: TD172+
- Pollution, Heat
  - Water pollutants: TD427.H4
- Pollution of streams: TD425
- Pollution, Radioactive
  - Environmental pollutants: TD196.R3
- Pollution, Thermal
  - Water pollutants: TD427.H4
- Pollution, Water: TD419+
- Polyacetylenes
  - Plastics: TP1180.P53
- Polyacrylamides
  - Plastics: TP1180.P54
- Polyamide textile fibers: TS1548.7.P57
- Polyamides
  - Plastics: TP1180.P55

## INDEX

- Polyanilines
  - Plastics: TP1180.P552
- Polyarylethers
  - Plastics: TP1180.P553
- Polybishchloromethyloxetane
  - Plastics: TP1180.P555
- Polybrominated diphenyl ethers
  - Air pollutants: TD887.P69
  - Water pollutants: TD427.P646
- Polybutenes
  - Plastics: TP1180.P56
- Polycarbonates
  - Plastics: TP1180.P57
- Polychlorinated biphenyls
  - Effect on food: TX572.P65
  - Environmental pollutants: TD196.P65
  - Hazardous substances and their disposal: TD1066.P64
  - Industrial waste disposal: TD898.8.P64
  - Sewage treatment: TD758.5.P64
  - Soil pollutants: TD879.P64
  - Water pollutants: TD427.P65
- Polycyclic aromatic hydrocarbons
  - Air pollutants: TD887.P695
  - Soil pollutants: TD879.P66
  - Water pollutants: TD427.H93
- Polycyclic systems
  - Electrical engineering: TK3159
- Polyelectrolytes
  - Water pollutants: TD427.P67
- Polyester textile fibers: TS1548.7.P58
- Polyesters
  - Plastics: TP1180.P6
- Polyethylene
  - Plastics: TP1180.P65
- Polyethylene glycol
  - Biotechnology: TP248.65.P58
  - Plastics: TP1180.P653
- Polyethylenimine
  - Plastics: TP1180.P655
- Polyhedra
  - Structural engineering: TA660.P73
- Polyimides
  - Plastics: TP1180.P66
- Polymer conductors
  - Electric power: TK3311.P6
- Polymer liquid crystals
  - Plastics: TP1180.P666
- Polymerization
  - Chemical engineering: TP156.P6
- Polymers
  - Biotechnology: TP248.65.P62
  - Cementing substance: TA443.P58
  - Chemical technology: TP1080+
  - Electronics: TK7871.15.P6
  - Engineering materials: TA455.P58+
  - Fire prevention and extinction: TH9446.P65
  - Fire testing: TH9446.5.P65
  - Insulating material: TK3441.P58
  - Manufacture: TP1080+
- Polymers, Antimicrobial
  - Plastics: TP1180.A58
- Polymethines
  - Textile dyes: TP918.P65
- Polymethylbenzenes
  - Chemical technology: TP248.P67
- Polyolefins
  - Plastics: TP1180.P67
- Polyphase alternating-current machinery: TK2731
- Polyphase-current machinery
  - Alternating-current machinery: TK2745
- Polyphase current systems
  - Electrical engineering: TK3155+
- Polyphase currents
  - Electrical engineering: TK1161+
- Polyphase motors
  - Alternating-current motors: TK2785
- Polyphenylene oxide
  - Plastics: TP1180.P678
- Polyphosphazenes
  - Chemical technology: TP248.P675
- Polypropylene
  - Plastics: TP1180.P68
- Polypropylene textile fibers: TS1548.7.P6
- Polysaccharides
  - Biotechnology: TP248.65.P64
  - Chemical technology: TP248.P68
  - Food constituent: TX553.P65
  - Food constituents: TP453.P64

## INDEX

- Polysaccharides
  - Gums and resins: TP979.5.P6
- Polystyrene
  - Plastics: TP1180.S7
- Poly sulphides
  - Plastics: TP1180.P685
- Polytetrafluorethylene
  - Plastics: TP1180.P7
- Polythylene glycols
  - Environmental pollutants: TD196.P67
- Polyurethanes
  - Plastics: TP1180.P8
  - Textile fibers: TS1548.7.P63
- Polyvinyl plastics: TP1180.V48
- Pomegranates
  - Cooking: TX813.P64
- Ponds
  - Water supply source: TD392
- Pontoon bridges
  - Bridge engineering: TG450
- Poor
  - Nutrition: TX361.P66
  - Photographic portraits: TR681.P6
- Popcorn
  - Cooking: TX814.5.P66
- Porcelain
  - Ceramic technology: TP822
- Porch roofs
  - Building construction: TH2425
- Pork
  - Cooking: TX749.5.P67
  - Food values: TX556.P8
- Porosity and denseness
  - Engineering materials: TA418.82
- Porous materials
  - Engineering materials: TA418.9.P6
- Porridge
  - Cooking: TX809.P67
- Portable buildings
  - Building construction: TH1098
- Portable engines: TJ710
- Portable radios: TK6564.P6
- Porter
  - Brewing and malting: TP578
- Portland cement
  - Cement manufacture: TP883
- Portland cement concrete: TA439+
- Portrait photography: TR575+
- Portraits
  - Artistic photography: TR680+
- Posing guides
  - Portrait photography: TR577
- Positives
  - Photographic processing: TR320+, TR540+
- Post-tensioned prestressed concrete
  - Masonry materials: TA444.53
- Post-tensioned prestressed concrete construction: TA683.94
- Posters
  - Industrial safety: T55.3.P67
- Postfix (Electronic mail system):
  - TK5105.74.P66
- Potash-bearing rocks and plants
  - Mining engineering: TN919
- Potassium
  - Chemical technology: TP245.P8
  - Ore dressing and milling: TN538.P6
  - Prospecting: TN271.P6
- Potassium salts
  - Mining engineering: TN919
- Potato chip industry
  - Waste control: TD899.P6
- Potato peeling machines
  - Cooking: TX657.P6
- Potato printing
  - Decorative crafts: TT868
- Potatoes
  - Cooking: TX803.P8
  - Food processing and manufacture: TP444.P6
  - Food values: TX558.P8
  - Nutrition: TX401.2.P67
- Potential meters and measurements
  - Electrical engineering: TK321
- Potentiometer
  - Electronics: TK7872.P6
- Potpourris (Scented floral mixtures)
  - Decorative crafts: TT899.4
- Pottery
  - Chemical technology: TP807+
  - Chemistry of: TP810
- Pottery craft
  - Decorative crafts: TT919+

## INDEX

- Pottery machinery: TP817
- Potting compounds
  - Aeronautics: TL699.P7
  - Electronics: TK7871.15.P65
- Poultry
  - Cooking: TX750+
  - Food values: TX556.P9
  - Nutrition: TX375
- Poultry houses
  - Building construction: TH4930
- Poultry industry
  - Waste control: TD899.P65
- Poultry processing
  - Manufactures: TS1968
- Powder coating
  - Metal finishing: TS699
- Powder coating of metals: TS699
- Powder magazines
  - Explosives: TP295
- Powder metallurgy
  - Metal manufactures: TS245
  - Metallurgy: TN695+
- Powders
  - Plastics: TP1183.P68
- Power
  - Mechanical engineering: TJ163.6+
- Power amplifiers: TK7871.58.P6
- Power and power transmission
  - Machinery exclusive of prime movers: TJ1045+
- Power electronics: TK7881.15
- Power factor meters: TK351
- Power hammers
  - Machine shops: TJ1305+
- Power meters and measurements
  - Electrical engineering: TK351
- Power plants
  - Air pollution: TD888.P67
  - Airports: TL725.3.P67
  - Building construction: TH4581+
  - Electric lighting: TK4399.P6
  - Electrical engineering: TK1191+
  - Energy conservation: TJ163.5.P68
  - Noise control: TD893.6.P68
  - Ventilation: TH7684.P7
  - Water pollution: TD428.P67
- Power plants, Atomic
  - Water pollution: TD428.A86
- Power plants, Coal-fired
  - Water pollution: TD428.C58
- Power plants, Hydraulic: TJ845+
- Power plants, Nuclear: TK1341+
- Power plants, Pumped storage: TK1083
- Power plants, Solar: TK1545
- Power plants utilizing heat energy: TK1221+
- Power plants utilizing other power: TK1560
- Power plants utilizing waterpower: TK1421+
- Power plants utilizing wind: TK1541
- Power production
  - Telegraph: TK5371
  - Telephone: TK6271+
- Power production and distribution
  - Electric railways: TF863
- Power resources
  - Mechanical engineering: TJ163.13+
- Power resources development
  - Environmental effects: TD195.E49
- Power spectra
  - Engineering mathematics: TA348
- Power supply
  - Computer engineering: TK7895.P68
  - Electronic circuits: TK7868.P6
  - High speed ground transportation: TF1480
- Power tools
  - Handicrafts: TT153.5
- Power trains
  - Motor vehicles: TL260+
- Power transmission machinery
  - Machinery exclusive of prime movers: TJ1051
- Power transmission systems
  - Electric railways: TF880+
- PPP
  - Computer network protocols: TK5105.582
- Practical mining operations: TN275+
- Praseodymium
  - Chemical technology: TP245.P9

## INDEX

- Pre-tensioned prestressed concrete
  - Masonry materials: TA444.52
- Precast concrete
  - Housing material: TH4818.P7
  - Roads: TE278.8
- Precast concrete construction: TH1498
- Precast concrete industry
  - Noise control: TD893.6.P74
- Precast construction
  - Reinforced concrete construction: TA683.7
- Precious metals
  - Assaying: TN580.P74
  - Manufactures: TS720+
  - Metallography: TN693.P7
  - Metallurgy: TN759+
  - Ore deposits and mining: TN410+
- Precious stones
  - Jewelry manufacture: TS747+
  - Machine tools: TJ1193
- Precipitation
  - Chemical engineering: TP156.P7
- Precipitation, Chemical
  - Sewage purification: TD751
- Precise leveling
  - Surveying: TA607
- Precooked meat
  - Food values: TX556.M43
- Predetermined motion time systems
  - Industrial engineering: T60.5+
- Predictive control
  - Mechanical engineering: TJ217.6
- Prefabricated bridges: TG418
- Prefabricated buildings
  - Building construction: TH1098
- Prefabricated construction: TH4819.P7
- Pregnant women
  - Photographic portraits: TR681.P67
- Preliminary processes
  - Cotton manufactures: TS1577
- Spinning
  - Textile industries: TS1480+
- Preliminary surveying: TF213
- Preparation of coal: TN816.A1+
- Prepared cereals: TX395
- Prepared foods
  - Nutrition: TX389
- Prepayment meters
  - Electrical engineering: TK396
- Preschool children
  - Nutrition: TX361.P74
- Preservation
  - Motion picture film: TR886.3
- Preservation of foods in the home: TX599+
- Preservation of land from the sea: TC343+
- Preservation of wood: TA422+
- Preservation techniques
  - Food processing: TP371.2+
- Preservatives
  - Wine and winemaking: TP548.5.P7
- Presidents' Day decorations
  - Decorative crafts: TT900.P74
- Press-tool work
  - Metal manufactures: TS253
- Pressed brick
  - Chemical technology: TP831
- Pressed-earth building construction: TH1421
- Presses
  - Lifting machinery: TJ1450+
- Pressing
  - Men's clothing: TT583
  - Paper manufacture: TS1118.P74
- Pressing machinery
  - Mechanical engineering: TJ1425+
- Pressure
  - Aerodynamics: TL574.P7
- Pressure airships: TL656+
- Pressure cooker recipes: TX840.P7
- Pressure distribution
  - Aerodynamics: TL574.P7
- Pressure gages
  - Steam boilers: TJ370+
- Pressure-impregnation
  - Preservation of wood: TA424.4
- Pressure instruments
  - Aeronautical instruments: TL589.2.P7
- Pressure packaging: TS198.P7
- Pressure processes
  - Chemical engineering: TP156.P75
- Pressure regulators
  - Furnaces: TJ357

## INDEX

- Pressure-sensitive adhesives
  - Organic chemical industries: TP971
- Pressure suits
  - Aeronautics: TL697.P7
- Pressure tunneling
  - Railway construction: TF232
- Pressure vessels
  - Metal manufactures: TS283
  - Structural engineering: TA660.T34
- Pressure welding: TS228.9
- Pressurization
  - Airplanes: TL681.P7
- Pressurized water reactors
  - Nuclear engineering: TK9203.P7
- Prestressed concrete
  - Masonry materials: TA444.5
  - Roads: TE278.6
- Prestressed concrete construction:
  - TA683.9+
- Prestressed construction
  - Structural engineering: TA665
- Pretreatment of saline waters
  - Saline water conversion: TD479.8
- Pretzels
  - Cooking: TX770.P73
- Prevention of accidents
  - Aeronautics: TL553.5+
- Pricelists
  - Children's clothing: TT645
  - Men's clothing: TT620+
  - Millinery: TT665
- Prices
  - Building construction: TH11
  - Heating of buildings: TH7337
  - Hotels, clubs, restaurants, etc.:
    - TX911.3.P7
  - Pipefittings: TH6723
- Primary cells
  - Electrical engineering: TK2921
- Primates
  - Nature photography: TR729.P74
- Prime movers
  - Machinery: TJ250+
- Primitive construction: TH16
- Primitive pumps
  - Hydraulic machinery: TJ901
- Principles of mechanism
  - Mechanical engineering: TJ175
- Printed circuits
  - Electronic circuits: TK7868.P7
- Printed circuits industry
  - Air pollution: TD888.P73
  - Waste control: TD899.P69
- Printed electronics: TK7872.P75
- Printers' ink
  - Chemical technology: TP949+
- Printing
  - Color photography: TR545
  - Decorative crafts: TT866.5+
  - Metal finishing: TS719
  - Packaging: TS196.7
  - Telegraph: TK5543
- Printing industry
  - Environmental effects: TD195.P7
  - Waste control: TD899.P7
- Printing machinery
  - Electric driving: TK4059.P74
- Printing of positives
  - Photographic processing: TR330+
- Printing plants
  - Air conditioning: TH7688.P7
  - Building construction: TH4536.5
  - Noise control: TD893.6.P75
  - Ventilation: TH7684.P75
- Printing presses
  - Electric driving: TK4059.P74
- Printout equipment
  - Computer engineering: TK7887.7
- Prisoners
  - Photographic portraits: TR681.P69
- Prisons
  - Environmental effects: TD195.P74
  - Heating and ventilation: TH7392.P8
- Private aircraft
  - Airports: TL725.3.P7
- Private electric-light plants for country houses: TK4395
- Private fire departments
  - Fire prevention and extinction:
    - TH9447
- Private flying
  - Airplanes: TL721.4
- Private planes: TL685.1

## INDEX

- Privies
  - Building construction: TH4975
  - Sewage disposal: TD775
- Prizes
  - Cooking: TX648
- Probabilistic methods
  - Engineering mathematics: TA340
- Probability of safety
  - Structural analysis: TA656.5
- Probability theory
  - Industrial engineering: T57.3+
- Probes
  - Electronic instruments: TK7878.6
- Process control
  - Production management: TS156.8
- Process engineering
  - Production management: TS176+
- Process planning
  - Manufacturing engineering: TS183.3+
- Process recorders
  - Electrical engineering: TK393
- Processing methods
  - Wood: TS936
- Processing of exposed film
  - Cinematography: TR886.2
- Procmail (Electronic mail system):
  - TK5105.74.P76
- Producer gas
  - Gas industry: TP761.P9
- Product design
  - Product engineering: TS171+
- Product engineering
  - Production management: TS170+
- Product safety
  - Product engineering: TS175
- Product testing
  - Product engineering: TS175.5
- Production capacity
  - Industrial engineering: T58.7+
- Production control
  - Food processing and manufacture: TP372.7
  - Production management: TS157+
  - Sugar processing: TP380
- Production lines
  - Manufacturing engineering: TS178.4+
- Production management: TS155+
- Production of electric energy: TK1001+
  - Diesel engine electric plants: TK1075
  - Direct-current engineering: TK1111+
  - Gas turbine power plants: TK1076
  - Ocean thermal energy conversion: TK1073
- Production from atomic power:
  - TK1078
- Production from gas: TK1061
- Production from geothermal energy:
  - TK1055
- Production from steam (Coal):
  - TK1051
- Production from waterpower:
  - TK1081+
- Production of electricity
  - Chemical action: TK2901+
  - Direct energy conversion devices: TK2896+
- Production planning
  - Production management: TS176+
- Production standards
  - Industrial engineering: T60.3+
  - Machine shops: TJ1143
  - Textile industries: TS1450.5
- Production systems, Control of
  - Production management: TS155.8+
- Productivity
  - Industrial engineering: T58.8
- Profiles
  - Railroad surveying: TF214
- Profils d'ailes
  - Aerodynamics: TL574.A4
- Programmable controllers
  - Control engineering: TJ223.P76
- Programmed instruction
  - Technical education: T65.5.P7
- Programming
  - Industrial engineering: T57.7+
  - Mechanical engineering: TJ211.45
- Project Apollo: TL789.8.U6A5
- Project Gemini: TL789.8.U6G4
- Project management
  - Industrial engineering: T56.8
- Project Mariner: TL789.8.U6M3
- Project Mercury: TL789.8.U6M4
- Project Pioneer: TL789.8.U6P56



## INDEX

- Project Ranger: TL789.8.U6R3
- Project SNAP
  - Space vehicles: TL1102.N8
- Project Surveyor: TL789.8.U6S9
- Projection
  - Cinematography: TR890
  - Mechanical drawing: T362+
- Projectors
  - Photography: TR506+
- Projects for boys
  - Handicrafts: TT159+
- Proline
  - Chemical technology: TP248.P73
- Promethium
  - Chemical technology: TP245.P94
- Propaganda balloons: TL633
- Propane
  - Gas industry: TP761.P94
- Propellers
  - Aeronautical engineering: TL705+
  - Models: TL777
- Properties of soils: TA710+
- Propylene
  - Chemical technology: TP248.P75
- Prorating tables
  - Freight: TF666
- Prospecting: TN270+
  - Use of airplanes: TL722.4
- Prostitutes
  - Photographic portraits: TR681.P73
- Protection against corrosion
  - Iron and steel: TA467
  - Metals: TA462
- Protection against sand
  - Railway operation: TF541
- Protection against snow
  - Railway operation: TF542
- Protection from fire
  - Building construction: TH9111+
- Protection from water
  - Fire prevention and extinction: TH9431
- Protection of structures
  - Engineering: TA900
- Protective clothing
  - Fire prevention and extinction: TH9395+
- Protective clothing
  - Industrial safety: T55.3.P75
- Protective coatings
  - Electrical engineering: TK454.4.P7
  - Engineering materials: TA418.76
- Proteins
  - Biotechnology: TP248.65.P76
  - Chemical technology: TP248.P77
  - Food constituent: TX553.P7
  - Food constituents: TP453.P7
- Protoactinium
  - Chemical technology: TP245.P95
- Proton exchange membrane fuel cells
  - Electrical engineering: TK2933.P76
- Prototyping
  - Product design: TS171.8
- Protozoan biotechnology:
  - TP248.27.P75
- Provençal cooking: TX719.2.P75
- Proving grounds
  - Environmental effects: TD195.P76
- Proximity detectors
  - Electronics: TK7882.P7
- Prunes
  - Cooking: TX813.P78
  - Food processing and manufacture: TP441.P7
- Psychiatric hospital patients
  - Photographic portraits: TR681.P76
- Psychological aspects
  - Fatigue: T59.72
- Psychological examination
  - Drivers: TL152.35
- Psychology
  - Motor vehicle drivers: TL152.3+
  - Photography: TR183
- Public buildings
  - Air conditioning: TH7688.P78
  - Artificial lighting: TH7975.P82
  - Building construction: TH4021+
  - Building operation and housekeeping: TX985
  - Electric lighting: TK4399.P8
  - Fire prevention and extinction: TH9445.P8
  - Heating and ventilation: TH7392.P9
  - Sanitary engineering: TH6057.P8

## INDEX

- Public buildings
  - Ventilation: TH7684.P8
- Public housing
  - Environmental effects: TD195.P82
- Public land
  - Surveying: TA622
- Public relations
  - Hotels, clubs, restaurants, etc.: TX911.3.P77
- Public safety radio service: TK6570.P8
- Public shelters
  - Air conditioning: TH7688.P8
- Public toilets
  - Plumbing: TH6515.P9
- Public utilities
  - Environmental effects: TD195.P83
- Puddings
  - Cooking: TX773
- Puddling and puddling furnaces
  - Wrought iron: TN725
- Pulleys
  - Mechanical engineering: TJ1103
- Pulp
  - Analysis: TS1176.6.A5
- Pulp, Bleaching of
  - Woodpulp industry: TS1176.6.B6
- Pulp consistency transmitters
  - Paper manufacture: TS1118.P85
- Pulp mills
  - Air pollution: TD888.P8
  - Building construction: TH4536
  - Energy conservation: TJ163.5.P37
  - Environmental effects: TD195.P37
- Pulping processes
  - Paper manufacture: TS1171+
- Pulque
  - Fermented beverage: TP588.P8
- Pulse
  - Electronic circuits: TK7868.P8
- Pulse amplifiers: TK7871.58.P8
- Pulse compression radar: TK6592.P85
- Pulse generators
  - Electronics: TK7872.P8
- Pulse plating
  - Electroplating: TS671
- Pulsed power systems
  - Electrical engineering: TK2986
- Pulsed reactors
  - Nuclear engineering: TK9203.P8
- Pulsometers
  - Hydraulic machinery: TJ921
- Pultrusion
  - Plastics: TP1175.P84
- Pulverized coal
  - Fuel: TP328
- Pumice
  - Mining engineering: TN948.P74
- Pump placing
  - Cement and concrete construction: TA682.45
- Pumped storage power plants: TK1083
- Pumping
  - Chemical engineering: TP156.P8
- Pumping by compressed air
  - Hydraulic machinery: TJ925
- Pumping machinery
  - Chemical technology: TP159.P8
  - Electric driving: TK4059.P85
  - Hydraulic machinery: TJ899+
- Pumping stations
  - Sewers: TD725
  - Water distribution systems: TD485+
- Pumpkin
  - Cooking: TX803.P93
- Pumpkinseed oil
  - Chemical technology: TP684.P85
- Pumps
  - Hydraulic machinery: TJ899+
  - Water distribution systems: TD482
- Punch work
  - Metal manufactures: TS253
- Punching machinery: TJ1255+
- Punkas
  - Ventilation of buildings: TH7683.P8
- Punks
  - Photographic portraits: TR681.P84
- Puppets
  - Handicrafts: TT174.7
- Purchasing
  - Airplanes: TL671.85
  - Hotels, clubs, restaurants, etc.: TX911.3.P8
- Pure-culture yeast
  - Brewing and malting: TP581

## INDEX

Pure food shows  
  Nutrition: TX346.A1+  
Purification  
  Chemical engineering: TP156.P83  
  Gas industry: TP754  
  Sewage disposal systems: TD745+  
Purification, Water  
  Environmental technology: TD429.5+  
Purple  
  Textile dyes: TP925.P9  
Push technology  
  Internet: TK5105.887  
Pusher propellers: TL706.P8  
Putty  
  Chemical technology: TP941  
Pyrdine  
  Chemical technology: TP248.P8  
Pyrite  
  Mining engineering: TN948.P8  
Pyrites  
  Prospecting: TN271.P9  
Pyrochlore  
  Mining engineering: TN948.P82  
Pyrography  
  Woodworking: TT199.8  
Pyrolysis  
  Chemical engineering: TP156.P9  
Pyrometallurgy: TN688.5  
  Ferrous metals: TN706.5  
Pyrophyllite  
  Mining engineering: TN948.P85  
Pyrotechnics: TP300+  
  Rockets: TL784.P9  
Pyrotechnics and explosives  
  Chemical technology: TP267.5+

## Q

Qanats  
  Groundwater: TD404.7  
Qmail (Electronic mail system):  
  TK5105.74.Q43  
QS-9000  
  Motor vehicles: TL278.5  
Quadrasonic sound systems  
  Electronics: TK7881.8+

Quadratic programming  
  Industrial engineering: T57.82  
Quadruple expansion  
  Steam engines: TJ505  
Quadruplex telegraph system: TK5535  
Quail  
  Cooking: TX750.5.Q34  
Qualities of water: TD370+  
Quality assurance  
  Production management: TS156.6  
Quality control  
  Building construction: TH438.2  
  Chemical technology: TP150.Q34  
  Electric power system stability:  
    TK1010  
  Electrical engineering: TK5102.84  
  Electronics: TK7874.58  
  Engineering materials: TA403.6  
  Food processing: TP372.5+  
  Fur manufactures: TS1063  
  Hotels, clubs, restaurants, etc.:  
    TX911.3.Q34  
  Machinery: TJ245.5  
  Paper manufacture: TS1107  
  Production management: TS156+  
Quality control standards  
  Production management: TS156.16+  
Quality of service  
  Computer networks: TK5105.5956  
Quality standards  
  Motor vehicles: TL278.5  
Quantitative methods  
  Industrial engineering: T57+  
Quantities  
  Engineering economy: TA183  
  Heating of buildings: TH7335+  
  Masonry construction: TH5330  
  Plumbing: TH6234+  
Quantities and costs  
  Bridge engineering: TG313  
  Building construction: TH434+  
  Carpentry and joinery: TH5614+  
  Commercial buildings: TH4315  
  Houses: TH4815.8  
Quantity meters and measurements  
  Electrical engineering: TK341

## INDEX

Quantum communications  
  Telecommunication: TK5103.592.Q83  
Quantum dots: TK7874.88  
Quantum systems: TK7874.839+  
Quantum systems control: TK7874.885  
Quarries  
  Dangers and accidents: TN311+  
  Dust removal: TH7697.Q37  
  Environmental effects: TD195.Q3  
  Mining: TN277  
  Noise control: TD893.6.Q35  
Quartz  
  Electronics: TK7871.15.Q3  
  Mining engineering: TN948.Q3  
  Prospecting: TN271.Q4  
Quays  
  Harbor engineering: TC357  
Quenching  
  Steel metallurgy: TN752.Q4  
Questions  
  Building construction: TH166  
Queuing theory  
  Industrial engineering: T57.9  
Quick and easy cooking: TX833.5  
Quilting  
  Handicrafts: TT835  
Quilts  
  Handicrafts: TT835  
Quinoa  
  Cooking: TX809.Q55

## R

Rabbit  
  Cooking: TX749.5.R32  
Racetracks (Automobile)  
  Construction: TE305  
Racetracks (Horse racing)  
  Environmental effects: TD195.R26  
Racing automobiles: TL236+  
Racing motorcycles: TL442+  
Racing planes: TL685.6  
Rack railroads: TF684  
Racks and pinions  
  Toothed gears: TJ190  
Radar: TK6573+

Radar  
  Aeronautical navigation equipment:  
    TL696.R2  
  Aircraft communication: TL693+  
  Aircraft navigation equipment:  
    TL695+  
Radar air traffic control systems  
  Aeronautical navigation equipment:  
    TL696.R25  
Radiant floor heating: TH7535.5  
Radiant heaters  
  Local heating: TH7434.5+  
Radiation accidents: TK9152+  
Radiation effects  
  Engineering materials: TA418.6  
Radiation environment procedures and  
  equipment  
  Nuclear engineering: TK9151.4+  
Radiation safety  
  Airports: TL725.3.R3  
Radiation shielding  
  Space vehicles: TL1490  
Radiation tests  
  Engineering materials: TA418.6  
Radiative heating  
  Heating of buildings: TH7421+  
Radiator coils: TH7482+  
Radiators  
  Aircraft engines: TL702.R3  
  Convective heating: TH7449+  
  Gasoline automobiles: TL214.R3  
  Hot water heating: TH7547  
  Hydronic systems: TH7480+  
  Steam heating: TH7597  
Radio  
  Aircraft communication: TL693+  
  Aircraft navigation equipment:  
    TL695+  
  Amateurs' manuals: TK9956+  
  Apparatus: TK6560+  
  Electrical engineering: TK6540+  
  Railway signaling: TF627+  
  Space vehicles: TL3035  
Radio and television towers:  
  TK6565.R32  
Radio compass  
  Aeronautical navigation: TL696.C7

## INDEX

- Radio control: TK6570.C6
- Radio control systems
  - Models and modelmaking: TT154.5
- Radio data systems: TK6570.R27
- Radio frequency identification systems:
  - TK6570.I34
- Radio frequency integrated circuits:
  - TK7874.78
- Radio measurements
  - Electronics: TK6552.5
- Radio photographs: TK6600
- Radio receiving apparatus: TK6563+
- Radio resource management:
  - TK5103.4873
- Radio stations: TK6557.5+
  - Aircraft navigation: TL695.5
  - Building construction: TH4655
  - Directories: TK6555
- Radio transmitter-receivers: TK6564.3+
- Radioactive measurements
  - Control engineering: TJ223.R3
- Radioactive metals
  - Air pollutants: TD887.R3
- Radioactive minerals
  - Ore deposits and mining: TN490.A3
  - Prospecting: TN271.R33
- Radioactive pollution
  - Environmental pollutants: TD196.R3
  - Soil pollutants: TD879.R34
- Radioactive prospecting: TN269.7
- Radioactive substances
  - Fire prevention and extinction:
    - TH9446.R3
  - Nuclear engineering: TK9400+
  - Transportation: TK9152.17
  - Water pollutants: TD427.R3
- Radioactive waste disposal
  - Industrial wastes: TD897.85+
  - Solid wastes: TD812+
- Radioactive waste sites: TD898.15+
- Radioactive waste treatment facilities:
  - TD898.16
- Radioactivity
  - Effect on food: TX571.R3
- Radiochemistry
  - Nuclear engineering: TK9350
- Radiographic examinations
  - Testing of materials: TA417.25
- Radiography
  - Photography: TR750
- Radioisotope components
  - Aircraft: TL689
- Radioisotope technology
  - Aircraft: TL689
- Radioisotopes
  - Nuclear engineering: TK9400+
- Radiotelegraph
  - Electrical engineering: TK5700+
  - Stations: TK5771
  - Systems and instruments: TK5811+
- Radiotelephone: TK6553
- Radishes
  - Cooking: TX803.R33
- Radium
  - Chemical technology: TP245.R2
  - Ore deposits and mining: TN490.R3
- RADIUS
  - Computer network protocols:
    - TK5105.5825
- Radomes
  - Radar: TK6590.R3
- Radon
  - Air pollutants: TD885.5.R33
  - Environmental pollutants: TD196.R33
- Raffia
  - Decorative crafts: TT875
  - Textile fiber: TS1747.R2
- Rafter gages
  - Building construction: TH2397
- Rafter tables
  - Building construction: TH2398
- Rafters
  - Building construction: TH2393
- Ragweed seed oil
  - Chemical technology: TP684.R23
- Rail bonds
  - Electric railways: TF873
- Rail fastenings
  - Railway construction: TF261
- Railroad buildings
  - Heating and ventilation: TH7392.R3
- Railroad car furnishings: TF440

## INDEX

Railroad cars  
  Utilization and care: TF600+  
Railroad employees  
  Training and education: TF518  
Railroad engineering and operation:  
  TF1+  
Railroad repair shops  
  Electric power: TK4035.R3  
  Ventilation: TH7684.R3  
Railroad structures  
  Heating and ventilation: TH7392.R3  
Railroad surveying: TF210+  
Railroads  
  Environmental effects: TD195.R33  
  Noise control: TD893.6.R3  
  Photography: TR715  
  Radio: TK6570.R3  
  Waste control: TD899.R26  
Railroads, Model  
  Photography: TR715  
Rails  
  Electric railways: TF872  
  Railway construction: TF258+  
Railway bridges: TG445  
Railway construction: TF200+  
Railway docks: TF315  
Railway equipment and supplies:  
  TF340+  
Railway ferries: TF320  
Railway machinery and tools: TF350  
Railway motors  
  Electric railways: TF935  
Railway operation and management:  
  TF501+  
Railway patents: TF365  
Railway shops: TF376  
Railway structures and buildings:  
  TF270+  
Rain gardens  
  Urban runoff: TD657.4  
Rain loads  
  Architectural engineering: TH893  
RainNews24: TK5105.885.R34  
Rainmaking  
  Environmental effects: TD195.R34  
Rainwater  
  Water supply: TD418

Raisins  
  Cooking: TX813.R34  
Rally cars: TL236.4  
Ramie  
  Textile fiber: TS1544.R2, TS1747.R3  
Ramjet engines  
  Aeronautics: TL709.3.R3  
Ramps  
  Building design and construction:  
    TH2259  
Random access memory  
  Computer engineering: TK7895.M4  
Range  
  Aeronautical navigation equipment:  
    TL696.R3  
Range water heaters  
  Plumbing: TH6553+  
Ranger project: TL789.8.U6R3  
Ranges  
  Cooking: TX657.S3+  
  Metal manufactures: TS425  
Rape oil  
  Adulteration: TX595.R37  
  Chemical technology: TP684.R3  
Rapid solidification processing  
  Metal manufactures: TS247  
Rapid transit question: TF710+  
Rare earth metal alloys  
  Metallography: TN693.R3  
  Metallurgy: TN799.R37  
Rare earth metals  
  Engineering materials: TA480.R3  
Rare earths  
  Engineering materials: TA418.9.R37  
  Mining: TN490.A2  
  Prospecting: TN271.A2  
Rare gases  
  Chemical technology: TP244.R3  
Rare metals  
  Mining: TN490.A2  
  Prospecting: TN271.A2  
Raspberries  
  Cooking: TX813.R37  
Rate of climb indicator  
  Aeronautical instruments: TL589.2.R3  
Rate tables  
  Railroad freight: TF664

## INDEX

- Rates
  - Hotels, clubs, restaurants, etc.: TX911.3.R3
- Rates, Water: TD360
- Rattan furniture
  - Woodworking: TT197.8
- Rattan work
  - Decorative crafts: TT876.5
- Raw foods: TX742
- Rayon
  - Silk manufactures: TS1688.A1+
  - Textile fiber: TS1544.R3
- Razors
  - Barbering: TT967
- RDX
  - Explosives: TP290.R39
- REAC computer: TK7889.R4
- Reaction injection molding
  - Plastics: TP1151.R43
- Reactor fuel reprocessing plants
  - Air pollution: TD888.R4
  - Environmental effects: TD195.R4
  - Waste control: TD899.R3
- Reactor fuels
  - Nuclear engineering: TK9360+
- Read only memory
  - Computer engineering: TK7895.M4
- Reading machines
  - Computer engineering: TK7887.8.R4
- Reading the clock: TS548
- Reagents
  - Metallurgical equipment: TN678.5
- Real-time control
  - Mechanical engineering: TJ217.7
- Reamers
  - Machine shops: TJ1270
  - Machine tools: TJ1186
- Reapers
  - Agricultural machinery: TJ1485
- Rebuilding
  - Building construction: TH3401+
- Receipts
  - Home economics: TX151+
- Receivers, Telephone: TK6481
- Receiving
  - Aircraft communication equipment: TL694.R4
- Receiving apparatus
  - Radar: TK6588
  - Television: TK6653
- Recharge, Artificial
  - Groundwater: TD404
- Recharge of groundwaters
  - Disposal of sewage effluent: TD765
- Rechargeable batteries
  - Electrical engineering: TK2941
- Recipe books
  - Cooking: TX765
- Recipes for barbers (for hair preparations): TT977
- Reciprocating engines of unusual form: TJ717
- Reciprocating pumps
  - Hydraulic machinery: TJ915
- Reciprocating steam engines: TJ485+
- Reclamation of bogs, swamps, lakes, etc.: TC975
- Reclamation of land from the sea: TC343+
- Reclamation of oil: TP687
- Reclamation of wasteland: TC801+
- Reconnaissance
  - Railroad surveying: TF212
  - Railway construction: TF200
- Recorders, Digital video
  - Television: TK6655.D54
- Recording apparatus
  - Radio: TK6565.R4
- Recording meters
  - Electrical engineering: TK393
- Recording telephones: TK6500
- Records
  - Highway engineering: TE185
- Recovery of wastes
  - Precious metals: TS729
- Recreation areas
  - Electric lighting: TK4399.R4
  - Sanitary engineering: TD931
- Recreation buildings
  - Building construction: TH4711
- Recreation rooms
  - Building design and construction: TH3000.R43
- Recreational vehicle living: TX1110

## INDEX

- Rectangular wings
  - Airplanes: TL673.R4
- Rectification
  - Chemical engineering: TP156.R35
- Rectifiers
  - Electronics: TK7872.R35
  - Radio: TK6565.R42
- Recycle processes
  - Chemical engineering: TP156.R38
- Recycling
  - Industrial and factory wastes: TD897.845
  - Municipal refuse: TD794.5+
  - Plastics: TP1175.R43
- Red One motion picture camera: TR883.R43
- Redheads
  - Photographic portraits: TR681.R44
- Reduced gravity
  - Testing of materials: TA417.7.R43
- Reduced gravity environments
  - Applied fluid mechanics: TA357.5.R44
- Reducing valves
  - Steam powerplants: TJ433
- Reduction
  - Chemical engineering: TP156.R4
  - Photographic negatives: TR299
  - Photographic processing: TR475
- Reduction gears
  - Mechanical movements: TJ202
- Reductions
  - Industrial photography: TR910
- Reed
  - Engineering materials: TA455.R4
- Reentry communications
  - Astrionics: TL3028
- Refineries: TP690.3
  - Building construction: TH4571
- Refinery equipment: TP690.3
- Refinery processes
  - Wrought iron: TN725
- Refining
  - Paper manufacture: TS1118.R4
- Refinishing
  - Woodworking: TT199.4
- Reflectors
  - Lighting fixtures: TH7970.R4
- Reflex cameras
  - Photography: TR261
- Refractories
  - Architectural ceramics: TP838
- Refractories industry
  - Dust removal: TH7697.R4
  - Waste control: TD899.R34
- Refractory coating
  - Metal finishing: TS695.9
- Refractory materials: TA418.26
  - Metallurgical furnaces: TN677.5
- Refractory transition metal compounds
  - Metallography: TN693.T7
- Refrigerants
  - Chemical technology: TP492.8+
- Refrigeration
  - Chemical technology: TP490+
- Refrigeration and icemaking machinery: TP495+
- Refrigeration and refrigerating machinery
  - Electric power: TK4035.R4
- Refrigerator cars
  - Railway equipment: TF477
- Refrigerator drainage
  - Plumbing: TH6671.R3
- Refrigerator service
  - Freight: TF667
- Refrigerators: TP496+
- Refueling
  - Airplanes: TL711.R4
- Refugees
  - Photographic portraits: TR681.R48
- Refuse disposal
  - Low temperature sanitary engineering: TD949
  - Rural sanitary engineering: TD929+
- Refuse drainage
  - Low temperature sanitary engineering: TD949
- Registers
  - Hydrodynamics: TC177
  - Ventilation of buildings: TH7683.R4
  - Warm-air heating: TH7626



## INDEX

- Regulation
  - Explosives: TP297.A+
  - Hydraulic engineering: TC530+
  - Locomotive boilers: TJ642
- Regulation and control of power
  - Machinery exclusive of prime movers: TJ1055
- Regulation devices
  - Gas engines: TJ775
- Regulators
  - Building gas supply: TH6875
  - Central heating: TH7466.5
  - Dynamolectric machinery: TK2851
  - Hydraulic machinery: TJ857
  - Sewer appurtenances: TD701
- Reinforced concrete
  - Fire-resistive building construction: TH1087
  - Housing material: TH4818.R4
  - Masonry materials: TA444+
  - Pavements: TE278+
- Reinforced concrete bridges: TG340
  - Continuous girder bridges: TG414
- Reinforced concrete construction
  - Building construction: TH1501
  - Structural engineering: TA682.92+
- Reinforced materials
  - Engineering materials: TA418.9.R4
- Reinforced plastics: TP1177+
  - Engineering materials: TA455.P55
- Reinforcing bars
  - Corrosion: TA445.5
  - Reinforced concrete construction: TA683.42
- Reinforcing materials
  - Fire-resistive-building construction: TH1088
- Relativistic effects in astrodynamics: TL1055
- Relativistic rocket mechanics: TL1055
- Relay (Artificial satellite): TK5104.2.R4
- Relay control systems
  - Mechanical engineering: TJ218.5
- Relays
  - Dynamolectric machinery: TK2861
  - Electronics: TK7872.R38
  - Telegraph: TK5581+
- Reliability
  - Computer networks: TK5105.5956
  - Electronics: TK7870.23
  - Industrial products
    - Product engineering: TS173
  - Petroleum pipelines: TN879.55
  - Rockets: TL784.R4
- Relief processes
  - Photography: TR970
- Relief wells
  - Drainage: TC973
- Religious institutions
  - Energy conservation: TJ163.5.C57
- Remanufacturing: TS183.8
- Remediation, Electrochemical
  - Soil remediation: TD878.47
- Remington rifles: TS536.6.R44
- Remodeling
  - Building construction: TH3401+
  - Houses: TH4816+
- Remote access
  - Computer networks: TK5105.597
- Remote handling
  - Nuclear engineering: TK9151.6+
- Remote sensing
  - Environmental technology: TD158
  - Petroleum geology: TN870.55
- Remotely operated vehicles
  - Ocean engineering: TC1662
- Removal of dissolved minerals
  - Water purification: TD466
- Removal of sand
  - Railway operation: TF541
- Removal of snow and ice
  - Railway operation: TF542
- Removal of weeds
  - Railway operation: TF546
- Removal of wrecks
  - Railway operation: TF544
- Rendering apparatus
  - Lard manufactures: TS1981
- Renewable energy sources: TJ807+
- Renewal theory
  - Industrial engineering: T57.33
- Renovating
  - Hats: TS2193

## INDEX

- Repair
  - Airplanes: TL671.9
  - Building construction: TH3401+
  - Building gas supply: TH6860
  - Buses: TL232.2
  - Cycles: TL430
  - Hotels, clubs, restaurants, etc.: TX928
  - Houses: TH4817+
  - Motor vehicle operation: TL152+
  - Motorcycles: TL444
  - Petroleum pipelines: TN879.58
  - Plumbing: TH6681+
  - Railway permanent way: TF530+
  - Sewers: TD716+
  - Tractors: TL233.2
  - Trucks: TL230.2
- Repair of machinery
  - Mechanical engineering: TJ174
- Repair shops
  - Airports: TL725.3.R4
  - Railroads: TF376
- Repairing
  - Furniture: TT199
  - Handicrafts: TT151
  - Men's clothing: TT583
  - Radio: TK6553
- Repairing and adjusting
  - Watches and clocks: TS547
- Repeating firearms
  - Manufactures: TS536
- Replacement
  - Equipment analysis: TS181.6
- Reporting and forecasting
  - Aeronautical meteorology: TL557.R4
- Reporting, Environmental: TD194.8+
- Reprocessing
  - Nuclear engineering: TK9360+
- Reproduction paper: TS1167
- Reptiles
  - Nature photography: TR729.R47
- Rescue work
  - Fire extinction: TH9402+
  - Mining engineering: TN297
- Research
  - Aeronautics: TL565+
  - Technology: T175+
- Research aircraft: TL567.R47
- Research buildings
  - Building construction: TH4652
- Research equipment
  - Aeronautics: TL566+
- Research natural areas
  - Environmental effects: TD195.R45
- Research parks: T175.7
- Reservations
  - Hotels, clubs, restaurants, etc.: TX911.3.R47
- Reservoir oil pressure
  - Petroleum engineering: TN871.18
- Reservoirs: TD395+
  - Environmental effects: TD195.R47
  - Hydrostatics: TC167
- Reservoirs, Collecting
  - Sewers: TD722
- Reservoiris
  - Petroleum geology: TN870.57
- Residual materials
  - Engineering: TA709.5
- Resin
  - Cementing substance: TA443.R4
  - Web authoring software: TK5105.8885.R46
- Resinography: TP979
- Resins
  - Plastic: TP1185.R46
- Resistance boxes
  - Electric meters: TK311
- Resistance meters and measurements
  - Electric meters: TK311
- Resistors
  - Electronics: TK7872.R4
  - Radio: TK6565.R426
- Resonance
  - Electrical engineering: TK541
- Resonators
  - Radar: TK6590.R4
  - Radio: TK6565.R43
- Resource recovery facilities
  - Air pollution: TD888.R48
  - Environmental effects: TD195.R49
- Respirators
  - Industrial safety: T55.3.G3

## INDEX

- Rest areas
  - Roadside development: TE178.8
- Restaurants: TX901+
  - Building construction: TH4755
  - Business mathematics: TX911.3.M33
  - Electric power: TK4035.R46
  - Fire prevention and extinction: TH9445.R44
  - Food service: TX945+
  - Passenger planes: TL685.5.R4
  - Sanitary engineering: TH6057.R4
- Restoration
  - Airplanes: TL671.95
  - Military airplanes: TL685.3
  - Motor vehicle operation: TL152.2
  - Motorcycles: TL444.2
  - Photographs: TR465
  - Tractors: TL233.25
- Restoring
  - Furniture: TT199
- Restraints, Metal
  - Locksmithing: TS531
- Restrooms
  - Hotels, clubs, restaurants, etc.: TX911.3.R48
- Restyling
  - Women's tailoring: TT550
- Retail stores
  - Environmental effects: TD195.R493
- Retail trade
  - Environmental effects: TD195.R493
- Retaining rings
  - Fasteners: TJ1327
- Retaining walls
  - Bridges: TG325
  - Civil engineering: TA760+
  - Earthwork: TA770
- Retina camera
  - Photography: TR263.R4
- Retirement communities
  - Environmental effects: TD195.R495
- Retouching
  - Photographic processing: TR310
- Retractable landing gear
  - Airplanes: TL683.R4
- Retractable roofs
  - Building construction: TH2404
- Reusable space vehicles (Astronautics): TL795.5+
- Reveals
  - Window and door openings: TH2261+
- Reverse engineering: TA168.5
- Reverse osmosis
  - Chemical engineering: TP156.O7
- Reverse osmosis process
  - Saline water conversion: TD480.4+
  - Sewage purification: TD754
- Revolvers
  - Manufactures: TS537
- Rhenium
  - Assaying: TN580.R48
  - Engineering materials: TA480.R5
  - Metallography: TN693.R45
  - Metallurgy: TN799.R45
  - Ore deposits and mining: TN490.R48
- Rheology
  - Chemical engineering: TP156.R45
- Rheostats
  - Dynamoelectric machinery: TK2851
- Rhodium
  - Electroplating: TS692.R5
  - Metallurgy: TN799.R5
- Rhodonite
  - Mining engineering: TN948.R45
- Rhubarb
  - Cooking: TX803.R58
  - Food values: TX558.R4
- Ribbon work
  - Textile arts: TT850.5
- Ribbon work, Paper
  - Textile arts: TT850.5
- Ribs
  - Airplanes: TL674
- Rice
  - Cooking: TX809.R5
  - Food values: TX558.R5
  - Milling: TS2159.R5
- Rice beer
  - Fermented beverage: TP579
- Rice cakes
  - Cooking: TX814.5.R53
- Rice flour
  - Cooking: TX809.R52

## INDEX

- Rice oil
  - Chemical technology: TP684.R5
- Rice products
  - Food processing and manufacture: TP435.R3
- Rice vinegar: TP429.5
- Rice wines
  - Fermented beverage: TP579
- Rifle ranges
  - Environmental effects: TD195.R53
- Rifles
  - Manufactures: TS536.4+
- Rigging
  - Airplanes: TL671.5
  - Airships: TL660.1
  - Balloons: TL623
  - Computer animation: TR897.77
- Right-of-way
  - Railway operation: TF561
- Rigid airships: TL657
- Ring networks
  - Computer networks: TK5105.72
- Rip panel
  - Balloons: TL625.R5
- Risk assessment
  - Environmental pollution: TD193.5
  - Hazardous substances and their disposal: TD1050.R57
  - Nuclear engineering: TK9152.16
  - Radioactive waste disposal: TD898.14.R57
- Risk communication
  - Technology: T10.68
- Risk management
  - Hotels, clubs, restaurants, etc.: TX911.3.R57
- River crossings
  - Sewers: TD705
- River engineering: TC401+
- River protective works: TC530+
- Rivers
  - Hydrodynamics: TC175+
  - Water supply source: TD392
- Riveting
  - Iron and steel work: TA891
- Riveting machines
  - Machine shops: TJ1310
- Rivets
  - Fasteners: TJ1325
- Rivets, Metal
  - Engineering and construction: TA492.R6
- Road binders for unpaved roads: TE221
- Road construction
  - Air pollution: TD888.R62
  - Water pollution: TD428.R63
- Road design: TE175
- Road-marking materials: TE203
- Road rollers
  - Highway engineering: TE223+
- Road surveys: TE209+
- Roadbed
  - Electric railways: TF865
  - Railway construction: TF250
- Roadmasters' manuroads: TF538
- Roads
  - Environmental effects: TD195.R63
  - Highway engineering: TE1+
- Roadside development: TE177+
- Roadside litter control
  - Highway maintenance: TE220.55
- Roaming
  - Wireless communication systems: TK5103.4874
- Roasting
  - Cooking process: TX690
- Robot dynamics: TJ211.4
- Robot hands: TJ211.43
- Robot kinematics: TJ211.412
- Robot motion: TJ211.4
- Robot vision: TJ211.3
- Robot wrists: TJ211.42
- Robots
  - Mechanical engineering: TJ210.2+
- Robots, Industrial: TS191.8
- Robust control
  - Mechanical engineering: TJ217.2
- Rock craft: TT293
- Rock cuttings
  - Railroad construction: TF220+
- Rock drilling: TA743
- Rock drills: TA745+
- Rock excavation: TA740+

## INDEX

- Rock mechanics: TA706+
  - Petroleum geology: TN870.56
- Rocket belts: TL717.5
- Rocket propulsion: TL780+
- Rocketry as a profession: TL782.8
- Rockets
  - Aeronautics: TL780+
- Rockfills: TA709
- Rocking chairs
  - Wood manufactures: TS886.5.C45
- Rocks
  - Nature photography: TR732
- Roll
  - Aerodynamics: TL574.M6
  - Motor vehicle dynamics: TL245.2
- Rollei camera
  - Photography: TR263.R6
- Roller compacting
  - Cement and concrete construction: TA682.455
- Rolling contact
  - Mechanical engineering: TJ183.5
- Rolling mill machinery
  - Electric driving: TK4059.R64
- Rolling mills
  - Building construction: TH4537
  - Dust removal: TH7697.R6
  - Electric power: TK4035.R6
  - Energy conservation: TJ163.5.R64
  - Manufactures: TS340
- Rolling stock
  - Railway equipment: TF371+
- Rolls
  - Ore dressing and milling: TN510
- Roman cement
  - Cement manufacture: TP884.R7
- Romanies
  - Photographic portraits: TR681.G9
- Roof details
  - Building construction: TH2481+
- Roof falls
  - Mines: TN317
- Roof framing
  - Building construction: TH2391+
- Roof outlets
  - House drainage: TH6666
- Roof trusses
  - Building construction: TH2392
- Roofing
  - Building construction: TH2430+
- Roofing industry
  - Air pollution: TD888.R66
- Roofs
  - Building construction: TH2401+
- Roofs and roofing
  - Building construction: TH2391+
- Roofs, Special: TH2421+
- Room service
  - Hotels, clubs, restaurants, etc.: TX943+
- Root cause analysis: TA169.55.R66
- Rope systems
  - Fire prevention and extinction: TH9414
- Rope transmission
  - Mechanical engineering: TJ1115
- Ropework
  - Textile arts: TT840.R66
- Rose oil
  - Organic chemical industries: TP959.R6
- Rosé wines
  - Wine and winemaking: TP548.6.R67
- Roselle
  - Cooking: TX814.5.R58
  - Textile fiber: TS1747.R6
- Roses
  - Cooking: TX814.5.R6
  - Nature photography: TR726.R66
- Rosh ha-Shanah
  - Cooking: TX739.2.R67
- Rosin oil
  - Chemical technology: TP684.R7
- Rotaries
  - Dynamolectric machinery: TK2796
- Rotary blowers
  - Pneumatic machinery: TJ966
- Rotary combustion engines: TJ792
- Rotary engines: TJ729
- Rotary pumps
  - Hydraulic machinery: TJ917
- Rotor aircraft: TL714+

## INDEX

- Rotors
  - Machinery: TJ1058
- Roughing filtration
  - Water purification: TD444
- Roughing in
  - House drainage: TH6615
- Roundhouse management
  - Trains: TF595
- Roundhouses
  - Railway structures: TF296
- Routers
  - Computer networks: TK5105.543
  - Handicrafts: TT203.5
- Routing
  - Computer networks: TK5105.5487+
  - Handicrafts: TT203.5
- Routing tools
  - Machine shops: TJ1208
- Roving vehicles
  - Astronautics: TL475+
- Roxio Easy media creator
  - Digital video: TK6680.8.R67
- Rozhestvenskii (Aircraft manufacturer):
  - TL686.R7
- RS/1
  - Computer-aided engineering:
    - TA345.5.R73
- Rubber
  - Aeronautics: TL699.R8
  - Engineering materials: TA455.R8
  - Fire prevention and extinction:
    - TH9446.R8
  - Wood preservative: TA424.6.R8
- Rubber band craft: TT880
- Rubber bands
  - Decorative crafts: TT880
  - Manufactures: TS1920
- Rubber bearings
  - Mechanical engineering: TJ1073.R8
- Rubber boots
  - Manufactures: TS1910
- Rubber industry: TS1870+
  - Electric power: TK4035.R82
  - Energy conservation: TJ163.5.R82
  - Waste control: TD899.R8
- Rubber-seed oil
  - Chemical technology: TP684.R83
- Rubber shoes
  - Manufactures: TS1910
- Rubber stamp printing
  - Decorative crafts: TT867
- Rubber tires
  - Manufactures: TS1912
- Rubber to metal bonding
  - Metal finishing: TS718
- Rubbing craft
  - Decorative crafts: TT912
- Rubidium: TN490.R8
  - Engineering materials: TA480.R8
- Rubies
  - Jewelry work: TS755.R82
  - Mineral industries: TN997.R83
- Ruby lasers
  - Applied optics: TA1705
- Ruby on Rails
  - Web authoring software:
    - TK5105.8885.R83
- Rudder
  - Airplanes: TL677.R8
- Ruger rifle: TS536.6.R84
- Rugs
  - Textile manufactures: TS1772+
- Rugs, Hand-made
  - Textile arts: TT850
- Ruling-machinery
  - Stationery: TS1260
- Rum
  - Distilled liquors: TP607.R9
- Runners
  - Nutrition: TX361.R86
- Running gear
  - Motor vehicles: TL260+
- Runoff from roads
  - Water pollution: TD428.R84
- Runoff, Urban
  - Sewage collection and disposal systems: TD657+
- Runways
  - Airports: TL725.3.R8
- Rural sanitary engineering: TD920+
- Rural telephones: TK6169
- Rush work
  - Decorative crafts: TT877
- Russia leather: TS980.R8

## INDEX

Rustic works  
  Woodworking: TT200  
Rye  
  Food values: TX558.R9  
Rye products  
  Food processing and manufacture:  
    TP435.R83

### S

Saccharimetry  
  Food processing and manufacture:  
    TP382  
Saccharin  
  Sweeteners: TP424  
Saddle roofs  
  Building construction: TH2407  
Saddlery hardware  
  Manufactures: TS1035  
Saddles  
  Leather industries: TS1030+  
Safes  
  Metal manufactures: TS420  
  Security in buildings: TH9734  
Safety  
  Dams: TC550  
  Radio: TK6553  
Safety appliances  
  Automobiles: TL159.5  
  Furnaces: TJ350+  
  Machine shops: TJ1177  
Safety devices  
  Aeronautics: TL697.S3  
  Electric railways: TF947  
  Elevators: TJ1377  
  Highway engineering: TE228  
Safety factors  
  Motor vehicles: TL242  
Safety helmets  
  Industrial safety: T55.3.S23  
Safety, Industrial: T55+  
Safety instrumentation  
  Nuclear engineering: TK9183.S24  
Safety lamps  
  Mines: TN307  
Safety manuals  
  Authorship: T55.3.A87

Safety measures  
  Airports: TL725.3.S34  
  Airships: TL651  
  Chemical technology: TP149,  
    TP150.S24  
  Fire prevention and extinction:  
    TH9182  
  Food processing and manufacture:  
    TP373.5  
  Foundry work: TS238  
  Gas in buildings: TH6830+  
  Glass and glassmaking: TP858  
  Hazardous substances and their  
    disposal: TD1050.S24  
  Hotels, clubs, restaurants, etc.:  
    TX911.3.S24  
  Hydraulic engineering: TC159  
  Lighting  
    Building construction: TH7720  
  Management of engineering works:  
    TA192  
  Mechanical engineering: TJ166  
  Metal finishing: TS653.5  
  Metallurgical plants: TN676.A1+  
  Mining engineering: TN295  
  Motor vehicle operation: TL152.25  
  Petroleum pipelines: TN879.59  
  Petroleum refining: TP690.6  
  Plastics: TP1148  
  Radioactive waste disposal:  
    TD898.14.S34  
  Railway operation: TF610  
  School shops: TT170.4  
  Steam boilers: TJ298  
  Textile industries: TS1449  
  Water supply: TD358  
  Water supply utilities: TD358  
  Waterworks: TD358  
  Welding: TS227.8  
Safety of consumer products  
  Product engineering: TS175  
Safety of exit  
  Building construction: TH153  
Safety probability  
  Structural analysis: TA656.5  
Safety standards  
  Motor vehicles: TL242

## INDEX

- Safety valves
  - Furnaces: TJ352+
- Safflower
  - Textile dyes: TP925.S23
- Saffron
  - Cooking: TX819.S24
- Saggars
  - Ceramic technology: TP815
- Sago
  - Cooking: TX814.5.S34
  - Starch: TP416.S3
- Sailors
  - Photographic portraits: TR681.S24
- Saint Patrick's Day decorations
  - Decorative crafts: TT900.S25
- Saké
  - Fermented beverage: TP579
- Sal seed oil
  - Chemical technology: TP684.S2
- Salad dressing
  - Cooking: TX819.S27
- Salads
  - Cooking: TX807
  - Recipes: TX740
- Saline springs
  - Salt manufacture: TN907
- Saline water conversion: TD478+
- Saline water pretreatment: TD479.8
- Salmon
  - Cooking: TX748.S24
- Saloons: TX950+
  - Plumbing: TH6518.B2
- Salsas
  - Cooking: TX819.S29
- Salt
  - Cooking: TX819.S32
  - Mining engineering: TN900+
  - Preservation of wood: TA424.6.S3
  - Soil stabilization: TE210.5.S3
  - Street snow control: TD870
  - Water pollutants: TD427.S24
  - Wood composition: TS933.S2
- Salt mines and mining
  - Environmental effects: TD195.S26
- Salt mining: TN900+
- Saltpeter: TP238
- Salts: TP230+
- Salts
  - Fire prevention and extinction: TH9446.S3
- Salvage of material during fires
  - Fire prevention and extinction: TH9431
- Salvaging
  - Building construction: TH449
- Samaritan Jewish style cooking: TX724.2.S36
- Samarium
  - Chemical technology: TP245.S2
- Sample books
  - Men's clothing: TT628
  - Paper manufacturers: TS1220
- Sampling
  - Ores: TN560
  - Pollution measurement: TD193+
  - Sewage analysis: TD735
- Sampling theory
  - Industrial engineering: T57.36
- San Xia Dam (China): TC558.C52S26
- Sand
  - Engineering materials: TA455.S3
  - Mining engineering: TN939
- Sand and gravel industry
  - Dust removal: TH7697.S3
  - Environmental effects: TD195.S3
- Sand-blast process
  - Ornamental glass: TP864
- Sand bypassing
  - Coast protective works: TC339.8
- Sand casting
  - Handicrafts: TT295
- Sand crafts
  - Decorative crafts: TT865
- Sand filtration
  - Mechanical treatment of water purification: TD445
- Sand-lime brick
  - Brickmaking: TP832.S2
- Sand-lime products
  - Cement manufacture: TP884.S3
- Sand plants and bins
  - Railway structures: TF292
- Sand roads: TE230



## INDEX

- Sandblast
  - Pneumatic machinery: TJ1009
- Sandstone
  - Building stones: TN957
- Sandwich construction elements, Metal
  - Engineering and construction: TA492.S25
- Sandwich elements
  - Structural engineering: TA660.S3
- Sandwiches
  - Cooking: TX818
- Sanitary crafts
  - Environmental engineering of buildings: TH6071+
- Sanitary engineering: TD1+
  - Buildings: TH6014+
- Sanitary landfills
  - Municipal refuse: TD795.7
  - Sewage disposal: TD771
- Sanitation
  - Food processing and manufacture: TP373.6
  - Hotels, clubs, restaurants, etc.: TX911.3.S3
  - Wine and winemaking: TP548.5.S35
- SAP NetWeaver
  - Web authoring software: TK5105.8885.S24
- Sapphires
  - Mineral industries: TN997.S24
- Saprolites
  - Mining engineering: TN948.S24
- Sapropel
  - Mining engineering: TN851
- Sardines
  - Cooking: TX748.S26
- SAS
  - Web authoring software: TK5105.8885.S25
- Sashes
  - Window and door: TH2272
- Sassafras oil
  - Organic chemical industries: TP959.S2
- Satellite radio: TK6562.S28
- Satellite surveying: TA595.5
- Satellite television
  - Amateurs' manuals: TK9962
- Sauces
  - Cooking: TX819.A1+
- Sauerkraut
  - Food processing and manufacture: TP444.S27
- Sausages
  - Cooking: TX749.5.S28
  - Meat-packing industries: TS1974.S3
- Sautéing
  - Cooking process: TX689.4
- Saw filing
  - Machine shops: TJ1235
- Saw sets
  - Machine shops: TJ1237
- Saw sharpening
  - Woodworking equipment: TS851
- Sawing machinery
  - Machine shops: TJ1230+
- Sawmills
  - Wood products: TS850
- Saws
  - Machine shops: TJ1233+
- SCADA systems
  - Mechanical engineering: TJ222
- Scaffolding
  - Building construction: TH5281
- Scale
  - Saline water conversion: TD479.8
- Scales (Weighing instruments)
  - Metal manufactures: TS410
- Scaling ladder systems
  - Fire prevention and extinction: TH9412
- Scallops
  - Cooking: TX754.S33
- Scandium
  - Chemical technology: TP245.S3
  - Ore deposits and mining: TN490.S4
- Scanning systems
  - Electronics: TK7882.S3
- Scenic byways
  - Highway engineering: TE229.9
- Scheduling
  - Building construction: TH438.4
  - Production control: TS157.5+

## INDEX

- Schematic analysis
  - Industrial engineering: T57.4
- Schematic methods
  - Engineering mathematics: TA337+
- Scholars
  - Photographic portraits: TR681.S36
- School buildings
  - Electric power: TK4025
  - Fire prevention and extinction: TH9445.S3
  - Heating and ventilation: TH7392.S35
- School cafeterias
  - Food service: TX945.2
- School lunchrooms
  - Food service: TX945.2
- School photography: TR818
- School shops
  - Handicrafts: TT170+
- Schools
  - Brewing and malting: TP574
  - Energy conservation: TJ163.5.U5
  - Plumbing: TH6515.S4
- Schools of industrial design: TS171.44
- Schools, Technical
  - Industrial engineering: T61+
- Schottky-barrier diodes
  - Semiconductors: TK7871.89.S35
- Schuetzen rifles: TS536.6.S3
- Schungite
  - Mining engineering: TN847
- Scientific applications
  - Photography: TR692+
- Scientific cinematography
  - Photography: TR893+
- Scientific expeditions
  - Photography: TR710
- Scientific satellites: TL798.S3
- Scientists
  - Photographic portraits: TR681.S37
- Scissors
  - Metal manufactures: TS381
- Sconces
  - Woodworking: TT197.5.L34
- Scones
  - Cooking: TX770.B55
- Scooters
  - Handicrafts: TT174.5.S35
- Scramjet engines
  - Aeronautics: TL709.3.S37
- Scrap metal industry
  - Environmental effects: TD195.S36
- Scrap metals
  - Manufactures: TS214
- Scrapers
  - Machine shops: TJ1201.S3
- Scrapmetal craft
  - Metalworking: TT214
- Screen doors
  - Building design: TH2278+
- Screen process work
  - Handicrafts: TT273
- Screening
  - Chemical engineering: TP156.S3
  - Coal: TN816.A1+
  - Mechanical water purification: TD439
  - Ore dressing and milling: TN515
  - Sewage purification: TD753
  - Sewage treatment: TD748
- Screening machinery: TJ1540
- Screens
  - Decorative crafts: TT899.45
  - Ore dressing and milling: TN515
  - Window fittings: TH2276
- Screw bevel gears
  - Mechanical movements: TJ196
- Screw-cutting machines
  - Machine shops: TJ1222
- Screw machines
  - Machine shops: TJ1215+
- Screw-piles
  - Foundations: TA783
- Screw press
  - Lifting machinery: TJ1455
- Screwdrivers
  - Machine shops: TJ1201.S34
- Screwjack
  - Lifting machinery: TJ1433
- Screws and screw threads
  - Fasteners: TJ1338+
- Screws, Metal
  - Engineering and construction: TA492.S3
- Scroll saw work (Box craft)
  - Woodworking: TT190.6

## INDEX

Scrolls and designs for carriage  
  painters: TS2032  
Scrollwork  
  Woodworking: TT190.6  
Scrubber process  
  Chemical engineering: TP156.S32  
Scrubbers  
  Chemical technology: TP159.S34  
Sculpture  
  Photography of art: TR658.3  
Scuttles  
  Building construction: TH2491  
SDN  
  Computer network protocols:  
    TK5105.5833  
Sea locks  
  Harbor engineering: TC353  
Sea water  
  Effect on structures: TC200  
  Salt manufacture: TN905  
Seac computer: TK7889.S4  
Seafood  
  Cooking: TX747+  
  Food values: TX556.5  
Sealing  
  Building construction: TH1719  
  Chemical technology: TP988  
  Machinery: TJ246  
Sealing compounds  
  Chemical technology: TP988  
Seaplane bases: TL725.6  
Seaplane flying: TL711.S43  
Seaplanes: TL684+  
Search and rescue  
  Airplane accidents: TL553.8  
Search engines  
  Internet: TK5105.884+  
Search radar: TK6592.S4  
Search theory  
  Industrial engineering: T57.97  
Searchlights  
  Aircraft: TL691.S4  
  Electric lighting: TK4399.S4  
Seashore photography: TR670+  
Seasoning  
  Lumber: TS837  
  Meat-packing industries: TS1974.F5

Seat belts  
  Automobiles: TL159.5  
Seats  
  Motor vehicles: TL255.6  
  Passenger planes: TL685.5.S4  
  Space environment: TL1555  
Seawalls  
  Coast protective works: TC335  
Secondary cells  
  Electrical engineering: TK2941  
Secondary recovery of oil  
  Petroleum engineering: TN871.37  
Secondary school courses  
  Driver education: TL152.65  
Section  
  Airplanes: TL673.S4  
Section-books  
  Railway construction: TF260  
Sectional radiators  
  Hydronic systems: TH7487  
Security  
  Hotels, clubs, restaurants, etc.:  
    TX911.3.S4  
Security devices  
  Security in buildings: TH9730+  
Security in buildings  
  Building construction: TH9701+  
Security measures  
  Airports: TL725.3.S44  
  Electrical engineering: TK5102.85  
  Nuclear engineering: TK9152.1645  
  Production of electric energy: TK1025  
  Pumping stations: TD487.5  
  Waterworks: TD487.5  
Sediment  
  Water pollutants: TD427.S33  
Sediment analysis  
  Geophysical surveying: TN269.885  
Sediment transport  
  Hydrodynamics: TC175.2  
Sedimentation  
  Chemical engineering: TP156.S4  
  Mechanical of water purification:  
    TD439  
  Reservoirs: TD396  
  Sewage treatment: TD749+

## INDEX

- Sedimentation tanks and basins
  - Mechanical water purification: TD439
- Sedimentation with coagulation
  - Sewage purification: TD751
- Seed oils
  - Food values: TX560.S4
- Seed products
  - Food processing: TP437+
- Seeders
  - Agricultural machinery: TJ1483
- Seeding
  - Pollution control methods: TD192.7
- Seeds
  - Cooking: TX814.5.S44
  - Food processing: TP437+
- Segmentation, Image: TA1638.4
- Seismic prospecting: TN269.8+
- Seismic reflection method
  - Seismic prospecting: TN269.84
- Seismic refraction method
  - Seismic prospecting: TN269.85
- Selection
  - Equipment analysis: TS181.3
- Selenium
  - Chemical technology: TP245.S4
  - Mining engineering: TN948.S4
  - Water pollutants: TD427.S38
- Self-consolidating concrete
  - Masonry materials: TA445.7
- Self-potential method
  - Geophysical surveying: TN269.883
- Self-purification of streams
  - Disposal of sewage effluent: TD764
- Self-routing
  - Computer networks: TK5105.54873.S45
- Semantic Web: TK5105.88815
- Semi-submersible offshore structures
  - Ocean engineering: TC1702
- Semiconductor lasers
  - Applied optics: TA1700
- Semiconductors
  - Control engineering: TJ223.S45
  - Electronics: TK7871.85+
- Semikilled steel
  - Metallurgy: TN757.S45
- Semimetals
  - Engineering materials: TA455.S35
- Semirigid airships: TL656.4
- Semisolid processing
  - Metal manufactures: TS248
- Sending apparatus
  - Radio: TK6561
- Sendmail (Electronic mail system): TK5105.74.S44
- Sennit
  - Textile fiber: TS1792
- Sensitive surfaces
  - Photography: TR280+
- Sensitometry
  - Photography: TR280+
- Sensor networks
  - Electronics: TK7872.D48
- Sensors
  - Electronics: TK7871.673+, TK7872.D48
  - Infrared technology: TA1573
- Sensory evaluation of food: TX546
- Sensory qualities
  - Water quality: TD375, TD380+
- Separate sewerage system: TD664
- Separation
  - Biotechnology: TP248.25.S47
  - Chemical engineering: TP156.S45
- Separators (Machine)
  - Chemical technology: TP159.S4
- Sephardic style cooking: TX724.2.S47
- Septic tanks
  - Sewage disposal: TD778
- Series circuit
  - Electrical engineering: TK454.15.S47
- Serpentine
  - Mining engineering: TN948.S45
- Service centers, Data processing
  - Energy conservation: TJ163.5.D38
- Service industries
  - Electric power: TK4035.S4
  - Fire prevention and extinction: TH9445.S4
- Service learning
  - Technical education: T65.5.S47
- Service life of materials: TA409.2

## INDEX

- Service-oriented architecture (Computer networks): TK5105.5828
- Service, Quality of
  - Computer networks: TK5105.5956
- Service rules and regulations
  - Railway operation: TF520+
- Service stations
  - Motor vehicles: TL153
  - Waste control: TD899.S46
- Serving, Table
  - Dining-room service: TX881
- Servomechanisms
  - Mechanical engineering: TJ214
  - Radar: TK6590.S4
- Sesame
  - Cooking: TX814.5.S47
- Settings
  - Boilermaking: TJ292
- Settling
  - Mechanical water purification: TD439
- Settling tanks
  - Sewage treatment: TD749+
- Setup time
  - Industrial engineering: T60.47
- Sewage: TD730+
- Sewage and wastes
  - House drainage: TH6651+
- Sewage collection and disposal systems: TD511+
- Sewage disposal
  - Low temperature sanitary engineering: TD949
  - Rural sanitary engineering: TD929+
- Sewage disposal plants: TD746
  - Air pollution: TD888.S38
  - Environmental effects: TD195.S47
  - Noise control: TD893.6.S48
  - Water pollution: TD428.S47
- Sewage disposal systems: TD741+
- Sewage drainage
  - Low temperature sanitary engineering: TD949
- Sewage effluent
  - Disposal: TD759+
- Sewage farming
  - Disposal of effluent: TD760
- Sewage irrigation: TD670, TD760
- Sewage lagoons
  - Sewage treatment: TD746.5
- Sewage sludge: TD767.4+
  - Disposal: TD772
  - Treatment and disposal: TD767+
- Sewage sludge ash
  - Sewage disposal: TD770.3
- Sewer appurtenances: TD695+
- Sewer corrosion: TD691
- Sewer explosions: TD690
- Sewer gas: TD690
- Sewer pipe
  - Architectural ceramics: TP839
- Sewerage: TD511+
  - Water pollution: TD428.S47
- Sewerage systems design: TD658
- Sewers: TD673+
- Sewing
  - Textile arts: TT700+
- Sewing by machine
  - Textile arts: TT713
- Sewing (Kindergarten): TT708
- Sewing machines
  - Mechanical engineering: TJ1501+
- Sex machines
  - Photography: TR717.3.S49
- Sextant
  - Aeronautical instruments: TL589.2.S4
- Shad
  - Cooking: TX748.S43
- Shades
  - Dyeing: TP907
- Shadows
  - Lighting: TH7723
- Shaft and journals
  - Steam engines: TJ539
- Shaft sinking
  - Mining: TN283
- Shafting
  - Generators: TK2458.S5
  - Machinery exclusive of prime movers: TJ1057
- Shafting, Metal
  - Engineering and construction: TA492.S5
- Shale
  - Engineering materials: TA455.S4

## INDEX

- Shale
  - Gas manufacture: TP751.7
  - Mining engineering: TN948.S5
- Shale oil
  - Mineral oils and waxes: TP699
- Shampoos: TP984
- Shape
  - Sewers: TD675+
- Shape memory alloys
  - Engineering and construction: TA487
- Shape memory polymers
  - Engineering materials: TA455.P585
- Shapers
  - Machine shops: TJ1208
- Shaping machines
  - Machine shops: TJ1300
- SharePoint (Microsoft)
  - Web authoring software: TK5105.8885.M543
- Sharks
  - Cooking: TX748.S5
- Sharpening tools
  - Machine shops: TJ1280+
- Shaving
  - Barbering: TT964
- Shawls
  - Knitting and crocheting: TT825
  - Textile industries: TS1781
- Shea butter
  - Chemical technology: TP684.S53
- Shear
  - Structural analysis: TA648.4
  - Testing of materials: TA417.7.S5
- Shear legs
  - Hoisting machinery: TJ1361
- Shears
  - Machine shops: TJ1240
- Shears, Hand
  - Metal manufactures: TS381
- Sheathing papers
  - Building construction: TH1720
- Sheer fabrics
  - Textile fabrics: TS1770.S54
- Sheet iron
  - Metal manufactures: TS360
- Sheet metal
  - Building construction: TH1651+
- Sheet metal walls
  - Building design and construction: TH2247
- Sheet metalwork
  - Metal manufactures: TS250
- Sheet-piling
  - Foundations: TA785
- Sheet steel
  - Metal manufactures: TS360
- Sheet systems
  - Fire prevention and extinction: TH9418
- Sheets
  - Handicrafts: TT406
  - Home furnishings: TX315
- Shell roofs
  - Building construction: TH2416+
- Shellac
  - Chemical technology: TP938
- Shellcraft
  - Decorative crafts: TT862
- Shellfish
  - Cooking: TX753+
  - Nutrition: TX387
- Shells
  - Nature photography: TR729.S54
  - Reinforced concrete construction: TA683.5.S4
  - Structural engineering: TA660.S5
- Shells (Sea shells)
  - Engineering materials: TA455.S43
- Shelving
  - Building construction: TH2555
- Shielding
  - Aircraft communication equipment: TL694.I6
  - Airplanes: TL673.T4
  - Electronic circuits: TK7867.8
  - Nuclear reactors: TK9210+
- Shift registers
  - Computer engineering: TK7895.S54
- Shingle roofing
  - Building construction: TH2441
- Ship canals: TC770
- Ship railways: TC771+
- Shipbuilding industry
  - Waste control: TD899.S55

## INDEX

Shipment, Packing for: TS198.5+  
Ships  
  Air pollution: TD888.S54  
  Seashore photography: TR670.5  
  Water pollution: TD428.S55  
Shipyards  
  Electric power: TK4035.S5  
  Waste control: TD899.S55  
Shirts  
  Men's tailoring: TT612  
Shisha mirror embroidery: TT778.S55  
Shochu  
  Distilled liquors: TP607.S5  
Shock absorbers  
  Airplanes: TL683.S4  
  Machinery: TJ1060.2  
  Motor vehicles: TL257.5  
  Railroad cars: TF393  
Shock tubes  
  Aeronautical research: TL567.S4  
Shock waves  
  Aerodynamics: TL574.S4  
Shockwave  
  Web authoring software:  
    TK5105.8885.S56  
Shoe making machinery  
  Manufactures: TS1005  
Shoemaking  
  Leather industries: TS989+  
Shoji screens  
  Building construction: TH2544  
Shone sewerage system: TD668  
Shop kinks  
  Machine shop practice: TJ1165  
Shop management  
  Hairdressing: TT965+  
Shop mathematics  
  Machine shop practice: TJ1165  
Shop practice  
  Locomotives: TJ683  
  Motorcycles: TL444.5  
Shop repairing  
  Machine shop practice: TJ1165  
Shopping  
  Household administration: TX335+  
Shopping centers  
  Environmental effects: TD195.S52

Shopping centers  
  Fire prevention and extinction:  
    TH9445.S8  
Shopping for food: TX356  
Shopping guides  
  Consumer education: TX335+  
Shops  
  Railway structures: TF298  
Shoring  
  Building construction: TH5281  
Shortwave radios: TK6564.S5  
Shortwave transmission  
  Radio: TK6562.S5  
Shot peening  
  Manufactures: TS207.3.P44  
Shotcrete: TA446  
Shotguns  
  Manufactures: TS536.8  
Shoulders  
  Highway engineering: TE212.5  
Show cards  
  Painting: TT360.A1+  
Show windows  
  Electric lighting: TK4399.S5  
Shower baths  
  Plumbing: TH6492  
Shrimp  
  Cooking: TX754.S58  
Shrines  
  Fire prevention and extinction:  
    TH9445.C5  
Shunting  
  Trains: TF592  
Shunts  
  Electric meters: TK311  
  Generators: TK2487  
Shutters  
  Photography: TR272  
  Window fittings: TH2276  
Sicilian style cooking: TX723.2.S55  
Siderite  
  Ore deposits and mining: TN402.S5  
Sidewalk lights  
  Natural lighting: TH7799  
Sidewalks  
  Pedestrian facilities: TE280+

## INDEX

- Siding
  - Building design and construction: TH2238.5
- Siemens process
  - Steel metallurgy: TN740+
- Sieves
  - Metal manufactures: TS275
- Sights
  - Gunsmithing: TS535.2.S46
- Sign lettering
  - Painting: TT360.A1+
- Sign painting: TT360.A1+
- Signal generators
  - Electronics: TK7872.S5
- Signal lights
  - Transportation engineering: TA1250
- Signal processing
  - Electrical engineering: TK5102.9
- Signaling
  - Aircraft: TL692
  - High speed ground transportation: TF1510
  - Railway operation: TF615+
- Signaling equipment
  - Transportation engineering: TA1245+
- Signals
  - Railway operation: TF610
- Signboards
  - Airports: TL725.3.S47
- Signs
  - Airports: TL725.3.S47
  - Electric lighting: TK4399.S6
- Silencers
  - Gunsmithing: TS535.2.S5
- Silica
  - Mining engineering: TN948.S6
- Silicates
  - Engineering materials: TA455.S46
- Silicides
  - Electronics: TK7871.15.S54
- Silicon
  - Chemical technology: TP245.S5
  - Electronics: TK7871.15.S55
- Silicon alloys
  - Engineering materials: TA479.S5
- Silicon carbide
  - Abrasive: TJ1298
- Silicon industry
  - Environmental effects: TD195.S54
- Silicon nitride
  - Electronics: TK7871.15.S558
  - Insulating material: TK3441.S46
- Silicon organic compounds
  - Electronics: TK7871.15.S56
  - Insulating material: TK3441.S47
- Silicone rubber
  - Manufactures: TS1927.S55
- Silicones
  - Chemical technology: TP248.S5
- Siliconizing
  - Metal finishing: TS695.5
- Silk
  - Dyeing: TP901
  - Textile fiber: TS1546
- Silk fabrics
  - Textile dyeing: TP931.S6
- Silk flowers
  - Decorative crafts: TT890.7
- Silk machinery
  - Silk manufactures: TS1672
- Silk ribbon embroidery: TT778.S64
- Silk-screen printing
  - Handicrafts: TT273
- Sillimanite
  - Mining engineering: TN948.S63
- Sills
  - Window and door openings: TH2261+
- Silos
  - Building construction: TH4935
- Siloxanes
  - Insulating material: TK3441.S48
- Silver
  - Assaying: TN580.S5
  - Chemical technology: TP245.S6
  - Engineering materials: TA480.S5
  - Environmental pollutants: TD196.S48
  - Metallography: TN693.S5
  - Ore deposits and mining: TN430+
  - Prospecting: TN271.S55
  - Sewage disposal: TD758.5.S44
- Silver and gold
  - Metallurgy: TN760+
  - Ore deposits and mining: TN410+



## INDEX

- Silver and lead
  - Metallurgy: TN770
- Silver cleaning: TX324
- Silver plating
  - Electroplating: TS680
- Silver salts
  - Photographic processes: TR385+
- Silver work
  - Manufactures: TS720+
- Silvering
  - Metal arts and crafts: TT382.8
  - Metal finishing: TS715
- Silversmithing
  - Manufactures: TS730+
- Silverware
  - Manufactures: TS735
- Simple Network Management Protocol (SNMP)
  - Computer networks: TK5105.583
- Simplex model
  - Linear programming: T57.76+
- Simplex telegraph system: TK5523
- Simulation methods
  - Hydraulic engineering: TC409
  - Industrial engineering: T57.62+
  - Mathematical models: TA343
  - Structural engineering: TA643
- Simultaneous telegraph and telephone: TK6525
- Single-carrier frequency division multiple access: TK5103.4817
- Single cell lipids
  - Biotechnology: TP248.65.S55
- Single cell proteins
  - Biotechnology: TP248.65.S56
- Single heading
  - Airplanes: TL711.S5
- Single-phase current systems
  - Electrical engineering: TK3151
- Single-phase currents
  - Electrical engineering: TK1145
- Single-ply roofing
  - Building construction: TH2452
- Single-rail railways: TF694
- Single shot rifle: TS536.6.S5
- Single-sideband radio transmission: TK6562.S54
- Sinks
  - Kitchen plumbing: TH6511
- Siphonage
  - Plumbing: TH6631+
- Sirens
  - Electroacoustics: TK5990
- Sisal
  - Textile fiber: TS1747.S5
- Sistema Nacional e-México
  - Computer networks: TK5105.875.S58
- Six Sigma
  - Quality control standards
  - Production management: TS156.17.S59
- Size of airports: TL725.3.S5
- Size of sewers: TD675+
- Size reduction
  - Chemical engineering: TP156.S5
- Sizing
  - Paper manufacture: TS1118.S5
  - Textile industries: TS1488+
- Skate industry
  - Technology: TS2301.S5
- Skateboards
  - Handicrafts: TT174.5.S35
- Skates (Fishes)
  - Cooking: TX748.S58
- Skewer cooking: TX834
- Ski resorts
  - Environmental effects: TD195.S57
  - Water pollution: TD428.S58
- Skidding
  - Motor vehicles: TL295
- Skids
  - Airplanes: TL683.S5
- Skillet cooking: TX840.S55
- Skimming
  - Sewage treatment: TD748
- Skin care: TT958.5
- Skinheads
  - Photographic portraits: TR681.S45
- Skins
  - Leather industries: TS967
- Skirts
  - Women's tailoring: TT540
- Skis
  - Airplanes: TL683.S6

## INDEX

- Skylab Program: TL789.8.U6S5
- Skylights
  - Building design and construction: TH2486+
- Skynet Project
  - Artificial satellites: TK5104.2.S5
- Skyscrapers
  - Fire prevention and extinction: TH9445.T18
  - Security in buildings: TH9745.S59
- Skywriting: TL722.5
- Slab-on-ground construction: TH4819.S5
- Slabs
  - Cement and concrete construction: TA682.5.S5
  - Reinforced concrete construction: TA683.5.S6
  - Structural engineering: TA660.S6
- Slacks
  - Men's tailoring: TT605
  - Women's tailoring: TT542
- Slag
  - Composition roofing: TH2451
  - Engineering materials: TA455.S5
  - Masonry materials: TA441
  - Metallurgy: TN707
- Slag cement
  - Cement manufacture: TP884.S6
- Slate: TN958
  - Insulating material: TK3441.S5
- Slate roofing
  - Building construction: TH2445
- Slaughterhouses
  - Manufactures: TS1960+
  - Ventilation: TH7684.S55
  - Waste control: TD899.M4
- Sleepers
  - Railway construction: TF252+
- Sleeping accommodations
  - Passenger planes: TL685.5.S6
- Sleeping cars
  - Railway equipment: TF459
- Sleeves
  - Men's tailoring: TT603
- Sleighs and sleds
  - Manufactures: TS2001+
- Slide-rule calculations
  - Carpentry and joinery: TH5613
- Slide valve
  - Steam engines: TJ545
- Sliding and folding doors
  - Building design: TH2278+
- Sliding mode control
  - Mechanical engineering: TJ220.5
- Slime treatment
  - Ore dressing and milling: TN525
- Slip
  - Aircraft propellers: TL706.S4
- Slip stream
  - Aeronautical engineering: TL706.S5
- Slipcovers
  - Handicrafts: TT395
- Slope-deflection method: TA650+
- Sloshing
  - Applied fluid mechanics: TA357.5.S57
- Slotted wings
  - Airplanes: TL673.S6
- Slotting machines
  - Machine shops: TJ1210
- Sloyd
  - Woodworking: TT187+
- Sludge digestion
  - Sewage treatment: TD769+
- Sludge gas
  - Sewage treatment: TD769.4
- Sluice gates
  - Electric driving: TK4059.S55
- Sluices
  - Dams: TC553
  - Hydraulic powerplants: TJ847
  - Hydrostatics: TC169
  - Technical hydraulics: TC175+
- Small bridges
  - Railway structures: TF282
- Small gasoline engines
  - Internal combustion engines: TJ790
- Small-scale power generation
  - Production of electric energy: TK1006
- Smart cards
  - Computer engineering: TK7895.S62
- Smart materials
  - Engineering materials: TA418.9.S62

## INDEX

- Smart power grids
  - Electrical engineering: TK3105
- Smelt-water explosions
  - Woodpulp industry: TS1176.6.S5
- Smelting companies: TN400+
- Smocking
  - Textile arts: TT840.S66
- Smocks
  - Women's tailoring: TT546
- Smog
  - Air pollutants: TD884.3
- Smoke
  - Air pollutants: TD884
  - In plumbing testing: TH6617
- Smoke control systems
  - Fire-resistive-building construction: TH1088.5
- Smoke prevention
  - Locomotives: TJ653
- Smoked foods
  - Cooking: TX835
- Smokeless powder
  - Explosives: TP273
- Smokers, Facts for
  - Tobacco industry: TS2249
- Smokestacks, Powerplant
  - Building construction: TH4591
- Smoking
  - Cooking: TX609
  - Preservation of foods: TX609
- Smoking and fires
  - Fire prevention: TH9197
- Smoking, Enjoyment of
  - Tobacco industry: TS2249
- Smoking paraphernalia
  - Manufactures: TS2280
- Smoking, Pipes for
  - Manufactures: TS2270
- Smoky chimneys
  - Building construction: TH2284
- Smoothies
  - Cooking: TX817.S636
- SNA (Computer network systems): TK5105.8.S65
- Snack foods: TP451.S57
- Snails
  - Cooking: TX754.S63
- Snapshooters
  - Photographic portraits: TR681.S6
- (SNMP) Simple Network Management Protocol
  - Computer networks: TK5105.583
- Snow and ice control
  - Roads and highways: TE220.5
  - Streets: TD868+
  - Use of salt and chemicals: TD870
- Snow and ice loads
  - Bridge design: TG304
- Snow building construction: TH1431
- Snow control
  - Streets: TD868+
- Snow guards
  - Railway structures: TF277
- Snow loads
  - Architectural engineering: TH895
  - Structural analysis: TA654.4
- Snow mechanics
  - Engineering: TA714
- Snowmobiles: TL234.2
- Soap
  - Chemical technology: TP990+
- Soaps: TP991
  - Hairdressing: TT969
- Soapstone
  - Mining engineering: TN948.T2
- Soaring: TL760+
  - Aeronautics: TL576
- Soccer fields
  - Environmental effects: TD195.S68
- Soccer players
  - Nutrition: TX361.S58
- Social aspects
  - Biotechnology: TP248.23
  - Radioactive waste disposal: TD898.14.S63
  - Technology: T14.5
- Social executives
  - Hotels, clubs, restaurants, etc.: TX930
- Sockets
  - Electric lighting: TK4361+
- Socks
  - Knitting and crocheting: TT825

## INDEX

- Sod
  - Housing material: TH4818.S55
- Soda deposits
  - Mining engineering: TN899+
- Soda fountains
  - Beverage industry apparatus: TP635
  - Plumbing: TH6518.S6
- Soda process
  - Woodpulp industry: TS1176.6.S6
- Soda water: TP628+
- Sodium
  - Chemical technology: TP245.S7
  - Food constituent: TX553.S65
- Sodium graphite reactors
  - Nuclear engineering: TK9203.S6
- Sodium hydroxide
  - Environmental pollutants: TD196.S52
- Sodium salts
  - Mining engineering: TN899+
- Sodium sulfate
  - Mining engineering: TN948.S7
- Sodium-sulfur batteries
  - Electricity production: TK2945.S63
- Soft drinks
  - Cooking: TX817.S64
- Soft home furnishings
  - Handicrafts: TT387+
- Soft sculpture
  - Decorative crafts: TT925
- Soft toys
  - Handicrafts: TT174.3
- Softness
  - Water quality: TD372
- Software-defined networking
  - Computer network protocols: TK5105.5833
- Software radio
  - Wireless communication systems: TK5103.4875
- Soil
  - Engineering materials: TA455.S6
- Soil bank failures
  - Mines: TN318.5
- Soil bioventing
  - Soil remediation: TD878.6
- Soil builder, Sewage disposal as: TD774+
- Soil cement
  - Housing material: TH4818.S6
  - Soil stabilization: TE210.5.S6
- Soil compaction
  - Earthwork: TA749
  - Highway engineering: TE210.4+
- Soil dynamics: TA711+
- Soil erosion prevention
  - Building construction: TH383
- Soil fixtures
  - Plumbing: TH6497
- Soil management
  - Water pollution: TD428.S64
- Soil mechanics: TA710+
  - Motor vehicle effects: TL243+
- Soil piping
  - House drainage: TH6653
- Soil pollution
  - Environmental engineering: TD878+
- Soil profiles
  - Highway engineering: TE208+
- Soil remediation
  - Environmental engineering: TD878+
- Soil stabilization
  - Earthwork: TA749
  - Highway engineering: TE210.4+
- Soil stack systems
  - House drainage: TH6651+
- Soil-structure interaction
  - Soil mechanics: TA711.5
- Soil surveys
  - Highway engineering: TE208+
- Soil testing
  - Soil mechanics: TA710.5
- Soil vapor extraction
  - Soil remediation: TD878.5
- Soil vitrification
  - Soil remediation: TD878.7
- Soil working machines
  - Agricultural machinery: TJ1482
- Soils
  - Airports: TL725.3.S6
  - Properties: TA710+
- Solar air conditioning
  - Ventilation of buildings: TH7687.9
- Solar batteries
  - Amateurs' manuals: TK9918

## INDEX

- Solar batteries
  - Electrical engineering: TK2960
- Solar cars: TL222
- Solar cells
  - Amateurs' manuals: TK9918
  - Electrical engineering: TK2960
- Solar collectors: TJ812
- Solar cooking: TX835.5
- Solar drying
  - Food preservation: TP371.65
- Solar energy: TJ809+
  - Environmental effects: TD195.S64
  - Production of electric energy: TK1056
  - Production of electric power: TK1085+
- Solar engines: TJ812.5
- Solar furnaces
  - Building construction: TH7145
- Solar gas turbines: TJ812.6
- Solar heating
  - Heating of buildings: TH7413+
- Solar houses
  - Heating of buildings: TH7414
- Solar materials: TJ812.7
- Solar ponds: TJ812.8
- Solar power plants: TK1545
- Solar production of electric power: TK1085+
- Solar pumps
  - Hydraulic machinery: TJ912
- Solar sails: TL783.9
- Solar saline water conversion plants: TD479.7
- Solar vehicles: TL222
- Solar water heaters
  - Plumbing: TH6561.7
- Solder
  - Plumbing: TH6297
- Soldering
  - Handicrafts: TT267
  - Plumbing: TH6297
  - Tinsmithing: TS610
- Sole leather: TS980.S6
- Soliciting
  - Electrical engineering: TK445
- Solid fuel reactors
  - Nuclear engineering: TK9203.S65
- Solid lubricants
  - Tribology: TJ1078
- Solid oxide fuel cells
  - Electrical engineering: TK2933.S65
- Solid propellant rockets: TL783.3
- Solid state batteries
  - Electrical engineering: TK2942
- Solid-state fermentation
  - Biotechnology: TP248.25.S64
- Solid-state image intensifiers: TK8334
- Solid-state lasers
  - Applied optics: TA1705
- Solid waste management, Integrated: TD794.2
  - Local: TD788+
- Solid wastes
  - Environmental technology: TD785+
- Solidification
  - Chemical engineering: TP156.S55
  - Hazardous substances: TD1063
  - Radioactive waste disposal: TD898.18
- Solions
  - Control engineering: TJ223.S6
- Soluble glass
  - Glassmaking: TP869
- Solution mining: TN278.5
- Solvent wastes
  - Waste disposal: TD898.8.S65
- Solvents
  - Chemical technology: TP247.5
  - Effect on food: TX571.S65
  - Environmental pollutants: TD196.S54
- Solvents industry
  - Air pollution: TD888.S6
- SONET
  - Synchronous transfer systems: TK5105.415
- Sonic boom
  - Aerodynamics: TL574.S55
- Sonic coagulation
  - Dust removal: TH7695.S6
- Sony cameras
  - Photography: TR263.S66
- Soot
  - Environmental pollutants: TD196.S56
  - Removal from chimneys: TH2285

## INDEX

- Sorbents
  - Chemical technology: TP159.S6
- Sorbitol
  - Chemical technology: TP248.S6
- Sorghum
  - Food values: TX558.S6
  - Milling: TS2159.S65
  - Sugars and syrups: TP405
- Sorghum products
  - Food processing and manufacture: TP435.S65
- Sorting
  - Ore dressing and milling: TN515
- Sorting devices
  - Mechanical engineering: TJ1555
- Sound motion pictures
  - Cinematography: TR897
- Sound recording
  - Electronics: TK7881.4+
- Sound recording instruments industry:
  - TS2301.S6
- Sound reproduction
  - Electronics: TK7881.4+
- Sound studios
  - Electric sound control: TK7881.45
- Sound systems
  - Amateurs' manuals: TK9968
  - Electronics: TK7881.4+
- Sound transmitting systems
  - Telephone: TK6401+
- Sounders
  - Telegraph: TK5581+
- Sounding balloons
  - Aeronautics: TL631
- Sounding rockets: TL785.8.S6
- Soundproof construction
  - Building construction: TH1725
- Soundproofing
  - Airplanes: TL681.S6
- Soups
  - Cooking: TX757
  - Food processing and manufacture: TP451.S67
- Sour cream and milk
  - Cooking: TX759.5.S68
- Source reduction
  - Waste minimization: TD793.95
- Source separation
  - Municipal refuse: TD794.8
- Sourdough bread
  - Cooking: TX770.S66
- Sous-vide cooking: TX690.7
- Southern Pacific Railroad: TJ603.3.S6
- Southern style cooking
  - American: TX715.2.S68
  - Italian: TX723.2.S65
- Southwestern style cooking:
  - TX715.2.S69
- Soy sauce
  - Condiments: TX407.S69
  - Cooking: TX819.S58
  - Food processing: TP438.S6
  - Nutrition: TX401.2.S69
- Soybean
  - Food values: TX558.S7
- Soybean oil
  - Chemical technology: TP684.S6
- Soybean products
  - Nutrition: TX401.2.S69
- Soybeans
  - Cooking: TX803.S6
  - Nutrition: TX401.2.S69
- Space archaeology
  - Astronautics: TL788.6
- Space-based radar: TL3285
- Space cabin simulators: TL1572
- Space colonies: TL795.7
- Space communities: TL795.7
- Space debris: TL1499
- Space environment: TL1489+
- Space environmental effects
  - Engineering materials: TA418.59
- Space flight computer simulation:
  - TL1088
- Space flight to Jupiter: TL799.J8
- Space flight to Mars: TL799.M3
- Space flight to Mercury: TL799.M4
- Space flight to the moon: TL799.M6
- Space flight to the sun: TL799.S86
- Space flight to Venus: TL799.V45
- Space flight training: TL1085
- Space frame structures
  - Structural engineering: TA660.S63
- Space mining: TN291.3+

## INDEX

- Space navigation
  - Astronautics: TL1065+
- Space photography: TR713
- Space probes (Astronautics): TL795.3
- Space robotics: TL1097
- Space safety: TL867
- Space shuttles (Astronautics): TL795.5+
- Space simulators
  - Space environment: TL1495
- Space spinoffs
  - Astronautics: TL865
- Space stations: TL797+
- Space suits: TL1550
- Space time codes
  - Wireless communication systems: TK5103.4877
- Space tools: TL1098
- Space tourism: TL794.7
- Space tracking
  - Astronautics: TL4030
- Space trajectories
  - Space navigation: TL1075+
- Space travel: TL787+
- Space travelers
  - Nutrition: TX361.S63
- Space vehicles: TL795+
  - Design and construction: TL875
  - Operation: TL1090+
  - Reliability: TL885
- Space vehicles, Reuseable (Astronautics): TL795.5+
- Space walk: TL1096
- Spaceships: TL795+
- Spaghetti
  - Food processing and manufacture: TP435.M3
- Spaghetti squash
  - Cooking: TX803.S63
- Spam filtering
  - Electronic mail systems: TK5105.743
- Spark ignition
  - Miscellaneous motors and engines: TJ782+
- Spark plugs
  - Internal combustion engines: TJ787+
- Sparkling wines
  - Wine and winemaking: TP548.6.S65
- Sparks and spark arresters
  - Locomotives: TJ656
- Spars
  - Airplanes: TL674
- Special effects
  - Cinematography: TR858
  - Photography: TR148
- Special occasions
  - Cooking: TX739+
- Special parts and equipment
  - Refrigeration and icemaking machinery: TP495.3.A+
- Specifications
  - Aircraft engines: TL701.7
  - Aircraft propellers: TL706.S6
  - Airplanes: TL671.1
  - Airports: TL725.2
  - Astronautics: TL869
  - Bathrooms: TH6486
  - Bridges: TG310
  - Building construction: TH425
  - Carpentry and joinery: TH5609
  - Cement and concrete construction: TA682.25
  - Concrete building construction: TH1465
  - Dynamolectric machinery: TK2321
  - Electrical engineering: TK425
  - Engineering economy: TA180+
  - Engineering materials: TA404.5
  - Environmental engineering of buildings: TH6051
  - Foundry work: TS234
  - Gas and electric lighting fixtures: TH7963
  - Heating of buildings: TH7325
  - Highway engineering: TE180
  - Hot water heating: TH7513
  - Hydraulic machinery: TJ902.5
  - Incandescent lighting: TK4348
  - Iron and steel: TA466
  - Knit goods: TT688
  - Lighting: TH7715
  - Machinery: TJ245
  - Metals: TA461

## INDEX

### Specifications

- Optical instruments: TS515
- Packaging: TS195.6
- Pavements: TE252
- Photography in surveying: TA593.6
- Plumbing: TH6225
- Railroad engineering: TF195
- Railway equipment: TF363
- Reinforced concrete construction:  
TA683.24
- Steam engines: TJ474
- Steam heating: TH7563
- Telegraph: TK5281
- Telephone: TK6181
- Underground lines: TK3258
- Warm-air heating: TH7602
- Watches and clocks: TS544.5

### Spectral imaging: TR267.73+

### Spectrum analysis of food: TX547+

### Speech processing systems

- Electronics: TK7882.S65

### Speech recognition systems

- Computer engineering: TK7895.S65

### Speed and revolution indicators

- Machinery exclusive of prime movers:  
TJ1054

### Speedometers

- Locomotives: TJ669.S6

### Spelt

- Cooking: TX809.S64

### Spencer rifle: TS536.6.S64

### Sphalerite

- Ore deposits and mining: TN482.S6

### Spherical balloons: TL634

### Spices

- Adulteration: TX587+
- Flavoring aids: TP420
- Nutrition: TX406+

### Spiegel iron

- Metallurgy: TN757.S7

### Spikes, Metal

- Engineering and construction:  
TA492.N2

### Spillways

- Dams: TC555
- Environmental effects: TD195.S65

### Spinach

- Food processing and manufacture:  
TP444.S65

### Spindles

- Machine tools: TJ1187.4

### Spinner

- Aircraft propellers: TL707.S6

### Spinning

- Aerodynamics: TL574.S6
- Cotton manufactures: TS1577
- Flax industries: TS1727
- Silk manufactures: TS1667
- Textile industries: TS1480+
- Woolen manufactures: TS1627+

### Spinning wheel

- Textile arts: TT847
- Textile industries: TS1484

### Spintronics: TK7874.887

### Spiral antennas: TK7871.67.S65

### Spirit leveling

- Surveying: TA607

### Splicing

- Motion picture film: TR886.5

### Splines

- Fasteners: TJ1329

### SPM materials

- Engineering materials: TA418.9.S64

### Sponge iron

- Metallurgy: TN727

### Spool-knitting for children: TT829

### Spoons

- Cooking: TX657.S28

### Sport airplanes: TL685.1

### Sport clothes: TT649

### Sport utility vehicles: TL230+

### Sporting goods industry

- Manufactures: TS2301.S7

### Sporting surfaces

- Plastic: TP1185.S65

### Sports cars: TL236+

### Sports cinematography

- Photography: TR895.6

### Sports facilities

- Electric lighting: TK4399.S63
- Energy conservation: TJ163.5.S67
- Heating and ventilation: TH7392.S65

### Sports photography: TR821



## INDEX

- Spotting
  - Commercial garment cleaning: TP932.6
- Sprang
  - Textile arts: TT840.S68
- Spray drying
  - Food preservation: TP371.66
- Spray painting
  - Handicrafts: TT315
- Spraying
  - Chemical engineering: TP156.S6
- Spraying with plastics: TP1175.S6
- Sprays
  - Plumbing: TH6492
- Spread spectrum communications: TK5103.45
- Springs
  - Mechanical movements: TJ210
  - Railroad cars: TF391
- Springs and suspension
  - Motor vehicles: TL257+
- Sprinklers
  - Water supply: TH6569.S7
- Sprinkling carts
  - Street cleaning: TD865
- Sprint cars
  - Motor vehicles: TL236.27
- Sprouted bed processes
  - Chemical engineering: TP156.S57
- Sprouts
  - Food values: TX558.S75
- Spruce
  - Aeronautics: TL699.S7
  - Woodpulp industry: TS1176.4.S7
- Spur gears
  - Toothed gears: TJ189
- Squares
  - Machine shops: TJ1201.S68
- Squash
  - Cooking: TX803.S67
- Squid
  - Cooking: TX748.S68
- Squirrel-cage motors
  - Alternating-current motors: TK2785
- Stability
  - Aerodynamics: TL574.S7
  - Electric power systems: TK1010
- Stability
  - Motor vehicle dynamics: TL245.8
  - Rockets: TL784.S7
- Stability of structures: TA656+
- Stabilization
  - Hazardous substances: TD1063
  - Radioactive waste disposal: TD898.18
  - Water treatment and conditioning: TD468
- Stabilization ponds
  - Sewage treatment: TD746.5
- Stabilizers
  - Airplanes: TL677.S8
  - Airships: TL662.S7
- Stabilizing devices
  - Airplanes: TL697.S8
- Stabilizing surfaces
  - Airplanes: TL676+
- Stadia surveying: TA588
- Stadiums
  - Building construction: TH4714
  - Environmental effects: TD195.S68
- Staff building construction: TH1550
- Stage photography: TR817
- Stagger
  - Airplanes: TL673.S7
- Staging
  - Building construction: TH5281
  - Rockets: TL784.S74
- Stain fungi
  - Deterioration of wood: TA423.4
- Stained glazing
  - Decorative furnishings: TH8271+
- Stainless steel
  - Engineering materials: TA479.S7
  - Metallurgy: TN757.C5
- Stair joinery
  - Building construction: TH5671+
- Stair railings
  - Building construction: TH5675+
- Stairbuilding
  - Finish carpentry: TH5667+
- Stall warning systems
  - Aeronautical instruments: TL589.2.S7
- Stalling
  - Aerodynamics: TL574.S74

## INDEX

- Stamping
  - Decorative needlework
  - Patterns: TT755
- Stamps
  - Ore dressing and milling: TN510
- Standard clock systems
  - Manufactures: TS544
- Standard times of work
  - Industrial engineering: T60.42
- Standardization
  - Industrial engineering: T59+
  - Railway equipment: TF347
  - Textile industries: TS1450
- Standards
  - Aircraft engines: TL701.7
  - Aircraft propellers: TL706.S6
  - Airplanes: TL671.1
  - Cement and concrete construction: TA682.25
  - Computer networks: TK5105.55+
  - Dynamolectric machinery: TK2311
  - Engineering materials: TA404.5
  - Food processing and manufacture: TP372.6
  - Hydraulic machinery: TJ902.5
  - Mechanical drawing: T357
  - Optical instruments: TS515
  - Packaging: TS195.6
  - Photography in surveying: TA593.6
  - Quality control
    - Production management: TS156.16+
  - Radio: TK6553
  - Reinforced concrete construction: TA683.24
  - Screws and screw threads: TJ1340
  - Steam engines: TJ474
  - Wells: TD407
  - Wood: TA419.5
- Standpipes
  - Water distribution systems: TD489
- Stannotype
  - Photography: TR997
- Star trackers
  - Space vehicles: TL3255
- Starch
  - Chemical technology: TP248.S7
- Starches: TP415+
- Food values: TX558.S8
- Starching
  - Laundry work: TT993
- Starters
  - Dynamolectric machinery: TK2851
- Starting devices
  - Aircraft engines: TL702.S7
  - Jet engines: TL709.5.S8
  - Motor vehicles: TL272
- Static electricity
  - Aeronautical meteorology: TL557.S65
- Static electricity and fires
  - Fire prevention: TH9198.5
- Static loading conditions
  - Structural analysis: TA648+
- Statics, Applied: TA351
- Station management: TF652
- Stationary boilers
  - Hot water heating: TH7539
- Stationary furnaces
  - Hot water heating: TH7539
  - Hydronic systems: TH7473
  - Steam heating: TH7589
- Stationery
  - Paper manufacture: TS1228+
- Stations
  - Mining engineering: TN297
  - Railway structures: TF300+
  - Telephone: TK6211+
- Statistical methods
  - Engineering mathematics: TA340
  - Hotels, clubs, restaurants, etc.: TX911.3.S73
  - Industrial design: TS171.9
  - Industrial engineering: T57.35+
  - Industrial safety: T55.3.S72
  - Mining engineering: TN272.7
- Statistically indeterminate structures: TA650+
- Staves
  - Manufactures: TS890
- Steam accumulators
  - Steam boilers: TJ393
- Steam automobiles: TL200
- Steam boiler explosions: TJ299+
- Steam boilers: TJ281+

## INDEX

- Steam coil tanks
  - Hot water supply: TH6559
- Steam condensation heating tanks
  - Plumbing: TH6560
- Steam engine accessories: TJ555+
- Steam engineering: TJ268+
- Steam engines
  - Aircraft engines: TL704.4
  - Mechanical engineering: TJ461+
- Steam engines, Non-reciprocating: TJ720+
- Steam fire engines
  - Fire extinction: TH9376
- Steam fixtures of buildings: TH7561+
- Steam gages
  - Steam boilers: TJ370+
- Steam hammers
  - Machine shops: TJ1305+
- Steam heating of buildings: TH7561+
- Steam jacket
  - Steam engines: TJ531
- Steam-jacketed pans
  - Chemical technology: TP159.S7
- Steam-laundry work: TT990
- Steam motorcars
  - Railway equipment: TF495
- Steam packing
  - Steam powerplants: TJ435
- Steam pipe covering
  - Steam powerplants: TJ427
- Steam power plants
  - Air pollution: TD888.S7
  - Mechanical engineering: TJ395+
  - Waste control: TD899.S68
- Steam pumps
  - Hydraulic machinery: TJ906+
- Steam separators
  - Steam powerplants: TJ441
- Steam shovels
  - Railroad construction: TF225+
- Steam syphons
  - Hydraulic machinery: TJ921
- Steam traps
  - Steam powerplants: TJ438
- Steam trucks: TJ705
- Steam turbines: TJ735+
- Steam valves
  - Steam powerplants: TJ430+
- Steam wagons: TJ705
- Steam water heaters
  - Hot water supply: TH6558+
- Steaming
  - Cooking process: TX691
- Steaming apparatus
  - Chemical technology: TP159.S73
- Stearates
  - Chemical technology: TP248.S76
- Stearic acid
  - Chemical technology: TP248.S8
- Stearman (Aircraft manufacturer): TL686.S7
- Steel
  - Aeronautics: TL699.S8
  - Electrical engineering: TK454.4.S7
  - Fire-resistive-building construction: TH1088.56
  - Heating: TS325
  - Housing material: TH4818.S73
  - Metal manufactures: TS300+
  - Metallurgy: TN730+
  - Motor vehicle construction materials: TL240.5.S74
  - Structural engineering: TA684+
- Steel alloys
  - Aeronautics: TL699.S8
  - Engineering materials: TA478+
  - Metallurgy: TN756+
- Steel and iron
  - Engineering materials: TA464+
- Steel beams
  - Structural engineering: TA660.S66
- Steel dams: TC549
- Steel furniture
  - Manufactures: TS408
- Steel pens
  - Stationery: TS1263
- Steel piling
  - Foundations: TA786
- Steel pipe
  - Sewers: TD686
- Steel plants
  - Metal manufactures: TS330

## INDEX

- Steel roofing
  - Building construction: TH2457
- Steel square
  - Carpentry and joinery: TH5619
- Steel-wood I-beams
  - Structural engineering: TA660.S67
- Steel work
  - Engineering: TA890+
- Steelworking
  - Metal manufactures: TS320
- Steelworks
  - Air pollution: TD888.S72
  - Electric lighting: TK4399.I7
  - Electric power: TK4035.S7
  - Energy conservation: TJ163.5.S83
  - Environmental effects: TD195.S7
  - Waste control: TD899.S7
- Steering apparatus
  - Airships: TL662.S8
- Steering gear
  - Motor vehicles: TL259
- Stencil cutting
  - Handicrafts: TT270+
- Stencil printing
  - Textile decoration: TT852.6
- Stencil work
  - Handicrafts: TT270+
- Stephanite: TN432.S7
- Stepped gears
  - Mechanical movements: TJ192
- Stereo high fidelity systems
  - Electronics: TK7881.8+
- Stereophonic broadcasting
  - Radio: TK6562.S7
- Stereophotogrammetry: TA593.7
- Stereophotography: TR780
- Stereoscopic cameras
  - Photography: TR259
- Stereoscopic motion pictures: TR854
- Stereotomy
  - Masonry construction: TA672
- Sterilization
  - Canned foods: TP371.35
  - Chemical engineering: TP156.S8
  - Space vehicles: TL945
  - Wine and winemaking: TP548.5.S7
- Stevia
  - Cooking: TX819.S75
- Stevioside
  - Sweeteners: TP425
- Stewards' manuals
  - Hotels, clubs, restaurants, etc.: TX921
- Stewing
  - Cooking process: TX693
- Still life photography: TR656.5
- Stir frying
  - Cooking process: TX689.5
- Stitches
  - Decorative needlework: TT760
- Stochastic processes
  - Industrial engineering: T57.32+
- Stochastic programming
  - Industrial engineering: T57.79
- Stock cars
  - Motor vehicles: TL236.28
  - Railway equipment: TF475
- Stock photography: TR690.6
- Stock preparation
  - Paper manufacture: TS1118.S85
- Stockkeeping
  - Inventory control: TS163
- Stockroom keeping
  - Hotels, clubs, restaurants, etc.: TX911.3.S8
- Stockrooms
  - Machine shops: TJ1150
- Stocks
  - Cooking: TX819.S8
- Stone
  - Housing material: TH4818.S75
  - Masonry construction: TA676
  - Masonry materials: TA426+
  - Pavements: TE257+
  - Roadmaking material: TE200+
  - Sidewalks: TE289
  - Stairbuilding: TH5667+
- Stone blocks
  - Pavements: TE261+
- Stone building construction: TH1201
- Stone, Coloring of
  - Painting: TT370
- Stone flooring: TH2529.S7

## INDEX

- Stone fruit
  - Cooking: TX813.S85
- Stone roofing
  - Building construction: TH2444+
- Stone walls
  - Building design and construction: TH2249
- Stonebreaking for roads: TE237
- Stonecrushers for road material: TE239
- Stonecutting
  - Building construction: TH5401+
- Stonemasonry
  - Building construction: TH5401+
- Stoneware
  - Ceramic technology: TP820
- Stonework
  - Manufactures: TS780+
- Stop-motion animated films: TR897.6
- Stop-motion animation
  - Cinematography: TR897.6
- Stoping
  - Mining: TN287
- Stoppings
  - Mining engineering: TN304
- Storage
  - Chemicals: TP205.S85
  - Food: TP373.3
  - Nuclear engineering: TK9152.165
- Storage and handling
  - Explosives: TP295
- Storage area networks
  - Electrical engineering: TK5105.86
- Storage batteries
  - Electrical engineering: TK2941
  - Locomotives: TJ669.S7
- Storage buildings: TH4451+
- Storage facilities
  - Plant service facilities: TS189.6
- Storage of coal: TN817
- Storage of foods in the home: TX599+
- Storage of hot water
  - Plumbing: TH6562+
- Storage of petroleum: TN871
- Storage systems
  - Cold water supply plumbing: TH6545
- Storage tanks
  - Cold water supply plumbing: TH6545
- Storage tubes
  - Electronics: TK7871.76
- Store fixtures
  - Wooden furniture: TS889
- Storerooms
  - Machine shops: TJ1150
  - Plant service facilities: TS189.6
- Stores, Retail
  - Electric lighting: TK4399.S8
  - Energy conservation: TJ163.5.S85
  - Environmental effects: TD195.R493
  - Fire prevention and extinction: TH9445.S8
  - Security in buildings: TH9745.S7
- Storm sewer system: TD665
- Stormproof construction
  - Building construction: TH1096
- Storms
  - Aeronautical meteorology: TL557.S7
- Stormwater infiltration: TD657.5
- Stoves
  - Cooking: TX657.S3+
  - Metal manufactures: TS425
- Stoves for commercial kitchens
  - Building construction: TH7135
- Stoves for heating
  - Building construction: TH7435+
- Straight-line mechanisms
  - Mechanical engineering: TJ181.8
- Straightening machines
  - Machine shops: TJ1300
- Strain gages
  - Testing of materials: TA413.5
- Strain hardening
  - Plastic properties and tests: TA418.18
- Strains
  - Aircraft propellers: TL706.S7
  - Airships: TL660.2
  - Bridge engineering: TG260+
  - Structural analysis: TA648.5
- Stratified charge engines
  - Internal combustion engines: TJ791
- Straw
  - Engineering materials: TA455.S8
  - Floor covering: TS1779.M2
  - Housing material: TH4818.S77

## INDEX

Straw plaiting  
  Textile fiber: TS1747.S7  
Straw work  
  Decorative crafts: TT876  
Strawberries  
  Cooking: TX813.S9  
Stray currents  
  Electric railways: TF912  
Streak cameras  
  Photography: TR257.5  
Stream channelization  
  Hydraulic engineering: TC529  
Stream Control Transmission Protocol:  
  TK5105.5835  
Stream gauging  
  Hydrodynamics: TC175+  
Stream pollution: TD425  
Streambank planting  
  River protective works: TC537  
Streaming technology  
  Electrical engineering: TK5105.386  
Streams  
  Sewage effluent discharge into:  
    TD763+  
Streams, Discharge into  
  Sewage disposal: TD771.5  
Streams, Self-purification of  
  Disposal of sewage effluent: TD764  
Street cars  
  Electric railways: TF920+  
Street cleaning: TD813+  
Street food  
  Nutrition: TX368  
Street lighting: TP741  
Street photography: TR659.8  
Street railways: TF701+  
Street rods: TL236.3  
Street sprinkling  
  Street cleaning: TD863+  
Streets  
  Highway engineering: TE279  
  Lighting (nonelectric): TP741  
  Use of salt and chemicals in ice  
    control: TD870  
Strela computer: TK7889.S7  
Strength  
  Boilermaking: TJ291

Strength  
  Brick: TA433  
  Cast iron: TA475  
  Cement: TA435  
  Concrete: TA440  
  Iron and steel: TA465  
  Metals: TA460  
  Mortar: TA437  
  Reinforced concrete: TA445  
  Soils: TA710+  
  Steel: TA473  
  Stone: TA427  
  Wood: TA420  
  Wrought iron: TA470  
Strength of materials: TA405+  
Strengthening mechanisms  
  Strength of materials: TA409.3  
Stress analysis  
  Strength of materials: TA407  
Stress, Deformation of materials under:  
  TA417.6  
Stresses  
  Aircraft propellers: TL706.S7  
  Airships: TL660.2  
  Bridge engineering: TG260+  
  Structural analysis: TA648.3  
Stresses, Thermal  
  Engineering materials: TA418.58  
  Structural engineering: TA654.8  
String  
  Decorative crafts: TT880  
String craft: TT880  
Strip adjustment  
  Photographic triangulation: TA593.83  
Strip mining: TN291  
  Environmental effects: TD195.S75  
Striped bass  
  Cooking: TX748.S75  
Stroboscopy: TA1820  
Strontium: TN490.S8  
  Chemical technology: TP245.S8  
Structural analysis  
  Air frames: TL671.6  
  Bridges: TG260+  
  Structural engineering: TA645+  
Structural design: TA658+

## INDEX

- Structural details
  - Airplanes: TL674
- Structural drawing
  - Mechanical drawing: T355
- Structural drawings
  - Building design and construction: TH2031
- Structural dynamics
  - Bridge engineering: TG265
  - Space vehicles: TL910
  - Structural analysis: TA654+
- Structural elements for landscape construction, Building of: TH4961+
- Structural engineering: TA630+
- Structural engineering of buildings
  - Building construction: TH845+
- Structural failure: TA656+
- Structural health monitoring
  - Structural analysis: TA656.6
- Structural iron and steel
  - Manufactures: TS350
- Structural optimization
  - Structural engineering: TA658.8
- Structural parts
  - Airplanes: TL674
- Structural protection
  - Engineering: TA900
- Structure-soil interaction
  - Soil mechanics: TA711.5
- Structures, Submerged
  - Hydraulic engineering: TC201
- Structures, Vertical evacuation
  - Building construction: TH1096.5
- Struts
  - Airplanes: TL674
  - Structural engineering: TA660.S7
- Struts framework
  - Web authoring software: TK5105.8885.S76
- Stucco
  - Building construction: TH1461+
  - Engineering materials: TA455.S84
  - Masonry: TH5371
- Students
  - Photographic portraits: TR681.S78
- Studio lighting
  - Photography: TR573
- Studios
  - Photography: TR550+
- Study and teaching of industrial design: TS171.44
- Stuffed foods
  - Cooking: TX836
- Stuffing box
  - Steam engines: TJ529
- Stump work embroidery: TT778.S75
- Stun guns
  - Electronics: TK7882.S78
- Stunt driving: TL152.58
- Stunt flying: TL711.S8
- Styrene
  - Effect on food: TX572.S79
  - Plastics: TP1180.S7
- Subbituminous coal
  - Mining: TN828+
- Subdivisions
  - Engineering: TH350
- Subgrade soils
  - Analysis: TE208+
- Subgrade structure
  - Highway engineering: TE211
- Sublimation
  - Chemical engineering: TP156.S9
- Submachine guns
  - Manufactures: TS536.9
- Submarine blasting
  - Hydraulic engineering: TC191+
- Submarine building
  - Hydraulic engineering: TC195+
- Submarine drilling
  - Hydraulic engineering: TC193
- Submarine foundations
  - Hydraulic engineering: TC197
- Submarine telegraph
  - Engineering: TK5601+
- Submarine telephone cables: TK6370+
- Submersible pumps
  - Hydraulic machinery: TJ927
- Submillimeter waves
  - Electronics: TK7877
- Subsidence
  - Mining: TN319
- Substations
  - Electric lighting: TK4237

## INDEX

- Substations
  - Electric power plants: TK1751
  - Telephone: TK6241
- Subsurface disposal
  - Sewage effluent: TD761
- Subterranean photography: TR788
- Subways
  - Engineering: TF845+
  - Environmental effects: TD195.S9
- Sucrose
  - Chemical technology: TP375+
- Suez Canal: TC791
- Sugar
  - Cooking: TX819.S94
  - Food constituent: TX553.S8
  - Food values: TX560.S9
- Sugar byproducts: TP414.5
- Sugar cane industry
  - Environmental effects: TD195.S93
- Sugar esters
  - Chemical technology: TP248.S9
- Sugar factories
  - Air pollution: TD888.S77
  - Electric power: TK4035.S9
- Sugar industry
  - Energy conservation: TJ163.5.S93
  - Waste control: TD899.S8
- Sugar-making machinery: TP381
- Sugar products: TP414.3+
- Sugarcane wax: TP679.S8
- Sugars and syrups
  - Chemical technology: TP375+
- SuiteSpot (Netscape):  
TK5105.883.N493
- Sulfate process
  - Woodpulp industry: TS1176.6.S9
- Sulfate waste liquor
  - Woodpulp industry: TS1176.6.S915
- Sulfates
  - Air pollutants: TD887.S78
  - Inorganic chemicals: TP240
- Sulfides
  - Ore deposits and mining: TN495.S9
  - Ore dressing and milling: TN538.S84
  - Prospecting: TN271.S88
  - Water pollutants: TD427.S94
- Sulfite liquor
  - Woodpulp industry: TS1176.6.S92
- Sulfite process
  - Woodpulp industry: TS1176.6.S93
- Sulfites
  - Inorganic chemicals: TP240
- Sulfoaluminate cement
  - Cement manufacture: TP884.S84
- Sulfonated oils: TP675
- Sulfonitriding
  - Metal finishing: TS695.7
- Sulfur
  - Air pollutants: TD887.S82
  - Chemical technology: TP245.S9
  - Engineering materials: TA455.S93
  - Environmental pollutants: TD196.S95
  - Food constituent: TX553.S85
  - Mining engineering: TN890
  - Prospecting: TN271.S9
  - Water pollutants: TD427.S94
- Sulfur cement
  - Cement manufacture: TP884.S85
- Sulfur compounds
  - Petroleum products: TP692.4.S9
  - Water pollutants: TD427.S94
- Sulfur dioxide
  - Air pollutants: TD885.5.S8
  - Chemical technology: TP244.S83
- Sulfur dyes
  - Textile dyes: TP918.S8
- Sulfur hexafluoride
  - Insulating material: TK3441.S8
- Sulfur organic compounds
  - Chemical technology: TP248.S93
- Sulfur oxides
  - Air pollutants: TD885.5.S85
- Sulfuric acid: TP215
- Sulfuric acid plants
  - Air pollution: TD888.S8
- Sulfurous acid
  - Effect on food: TX572.S9
- Summer homes
  - Construction: TH4835
- Summer pieces
  - Building construction: TH7433
- Sun
  - Flights to: TL799.S86



## INDEX

Sunflower seed oil  
  Chemical technology: TP684.S8  
Sunspace  
  Building design and construction:  
    TH3000.S85  
Superchargers  
  Aircraft engines: TL702.S8  
  Gasoline automobiles: TL214.S8  
  Miscellaneous motors and engines:  
    TJ762.S95  
Superconductors  
  Electrical engineering: TK454.4.S93  
  Electronics: TK7872.S8  
  Metallography: TN693.S9  
Superheated steam  
  Locomotives: TJ693  
  Steam engineering: TJ272  
Superheaters  
  Steam engineering: TJ272  
Superheating reactors  
  Nuclear engineering: TK9203.S86  
Superintendence  
  Bridge engineering: TG315  
  Construction sites: TH438+  
  Electrical enterprises: TK441+  
  Heating of buildings: TH7338  
  Plumbing: TH6238  
Superphosphates  
  Fertilizers: TP963.4.S9  
Supersonic aerodynamics: TL571  
Supersonic compressors  
  Turbines: TJ267.5.C6  
Supersonic nozzles  
  Turbines: TJ267.5.N6  
Superstructure  
  Railway construction: TF240+  
Supervisory control systems  
  Mechanical engineering: TJ222  
Suppers  
  Cooking: TX738  
Supplies  
  Blacksmithing: TT224  
  Chemical engineering: TP157+  
  Color photography: TR515  
  Electric railways: TF950+  
  Heating of buildings: TH7345  
  Machine shops: TJ1150

Supplies  
  Petroleum pipelines: TN879.54  
  Photography: TR196+  
  Pollution control methods: TD192  
  Textile arts: TT845  
  Wine and winemaking: TP548.5.A6  
  Woodworking: TT186  
Support systems, Decision  
  Industrial engineering: T58.62  
Supporting surfaces  
  Airplanes: TL672+  
Supports  
  Boilermaking: TJ293  
  Pipelines: TJ930.5  
SURAnet  
  Computer networks: TK5105.875.S95  
Surface  
  Steam engines: TJ561  
Surface active agents  
  Organic chemical industries: TP994  
Surface analysis  
  Chemical engineering: TP156.S95  
Surface effects  
  Engineering materials: TA418.7+  
Surface hardening  
  Steel metallurgy: TN752.S8  
Surface impoundments  
  Hazardous waste treatment facilities:  
    TD1054  
Surface tests  
  Engineering materials: TA418.7+  
Surface transportation: TN341  
Surround-sound systems  
  Electronics: TK7881.83  
Surveying: TA501+  
  Railway construction: TF200  
Surveying of cities  
  City planning: TD167  
Surveyor project: TL789.8.U6S9  
Survival after airplane accidents:  
  TL553.7  
Survival and rescue narratives  
  Aeronautics: TL553.9.A1+  
Susidences  
  Building construction: TH1094+  
Suspended ceilings  
  Building: TH2533.S88

## INDEX

- Suspended railways: TF693
- Suspension
  - Motor vehicles: TL257+
- Suspension bridges: TG400
- Suspension roofs
  - Building construction: TH2417
- Sustainable buildings
  - Architectural engineering: TH880
- Sustainable construction
  - Architectural engineering: TH880
- Sustainable practices
  - Telecommunication: TK5102.86
- Suzuki motorcycle: TL448.S8
- Swac computer: TK7889.S8
- Swamps
  - Reclamation: TC975
- Sweaters
  - Clothing manufacture: TT679+
  - Knitting and crocheting: TT825
- Sweepback
  - Airplanes: TL673.S9
- Sweet potatoes
  - Cooking: TX803.S94
  - Food processing and manufacture: TP444.S94
  - Food values: TX558.S94
- Sweeteners
  - Flavoring aids: TP421+
- Sweeteners, Artificial
  - Effect on food: TX571.S9
- Swimmers
  - Photographic portraits: TR681.S88
- Swimming pools
  - Building construction: TH4763
- Swing bridges: TG420
- Switchboards and accessories
  - Dynamolectric machinery: TK2821+
  - Telegraph: TK5491
- Switchboards and accessories for line connections: TK6391+
- Switched capacitor circuits
  - Electronic circuits: TK7868.S88
- Switched multi-megabit data service
  - Computer networks: TK5105.875.S97
- Switches
  - Dynamolectric machinery: TK2831
  - Railway construction: TF266+
- Switchgear
  - Radio: TK6565.S9
- Switching
  - Electronic circuits: TK7868.S9
- Switching circuits
  - Computer engineering: TK7888.4
- Switching diodes
  - Semiconductors: TK7871.89.S95
- Switching of cars
  - Trains: TF592
- Switching systems
  - Electrical engineering: TK5103.8
- Syenite
  - Mining engineering: TN948.S9
- Symbols
  - Industrial engineering: T55.52
  - Technology: T8
- Synchronizers
  - Electrical engineering: TK381
- Synchronous alternating-current machinery: TK2731
- Synchronous digital hierarchy
  - Synchronous transfer systems: TK5105.42
- Synchronous motors
  - Alternating-current motors: TK2787
- Synchronous telegraph system: TK5535
- Synchronous transfer systems
  - Electrical engineering: TK5105.4+
- Synthetic aperture radar: TK6592.S95
- Synthetic dyes
  - Textile decoration: TT854.5
- Synthetic fibers
  - Textile industries: TS1548.2+
- Synthetic fuels industry
  - Environmental effects: TD195.S95
- Synthetic petroleum
  - Fuel: TP355
  - Mineral oils and waxes: TP698
- Synthetic rubber
  - Manufactures: TS1925
- Synthetic textile fibers
  - Dyeing: TP904
  - Manufactures: TS1548.2+
- Synthetic training devices
  - Technical education: T65.5.S9

## INDEX

### Syrups

Carbonated beverages: TP636

Cooking: TX819.S96

System failures: TA169.5+

### Systems analysis

Industrial engineering: T57.6+

Systems engineering: TA168

Astronautics: TL870+

### Systems, Neuroadaptive

Human engineering: TA167.5

Systems of electric lighting: TK4303+

Systems reliability: TA169+

## T

### Table

Dining-room service: TX871+

### Table arrangement

Dining-room service: TX873

### Table carving

Dining-room service: TX885

### Table covers

Embroidery: TT775

### Table decoration

Dining-room service: TX879

Hotels, clubs, restaurants, etc.:

TX911.3.T32

### Table furnishings

Dining-room service: TX877

### Table, Pleasures of

Nutrition: TX631+

### Table service

Hotels, clubs, restaurants, etc.:

TX925

### Table serving

Dining-room service: TX881

### Table setting

Hotels, clubs, restaurants, etc.:

TX911.3.T32

Table-top photography: TR683.5

### Tables

Air navigation: TL587

Chemical technology: TP151

Home economics: TX151+

Ore dressing and milling: TN520+

Precious metals: TS729

Wood manufactures: TS886.5.T3

### Tables

Woodworking: TT197.5.T3

### Tabletop fountains

Decorative crafts: TT899.74

### Tablets

Stonework: TS788

### Tacan

Aeronautical navigation equipment:

TL696.T3

### Tachometer

Aeronautical instruments: TL589.7.T3

### Taconite

Ore deposits and mining: TN402.T3

### TACV

High speed ground transportation:

TF1580

### Tail skids

Airplanes: TL683.S5

### Taildragger flying

Airplanes: TL711.T28

### Tailings dam failures

Mines: TN319.5

Tailless airplanes: TL684.6

Tailoring, Men's: TT570+

### Tailplane

Airplanes: TL677.S8

### Takeoff

Airplanes: TL711.T3

### Talc

Electrical engineering: TK454.4.T3

Engineering materials: TA455.T3

Mining engineering: TN948.T2

### Tall buildings

Fire prevention and extinction:

TH9445.T18

Heating and ventilation: TH7392.T34

Plumbing: TH6515.T35

Sanitary engineering: TH6057.T23

### Tall oil

Chemical technology: TP684.T3

### Tallow

Manufactures: TS1980+

Tangential water wheels: TJ866

### Tank cars

Railway equipment: TF481

### Tank systems

Hot water supply plumbing: TH6551

## INDEX

- Tanks
  - Aircraft engines: TL702.F8
  - Plastic: TP1185.T3
  - Structural engineering: TA660.T34
- Tanneries
  - Environmental effects: TD195.T35
  - Fire prevention and extinction: TH9445.T2
  - Waste control: TD899.T3
- Tanning
  - Manufactures: TS940+
- Tanning materials
  - Manufactures: TS985
- Tannins
  - Manufactures: TS985
- Tantalum: TN490.T2
  - Chemical technology: TP245.T2
  - Engineering materials: TA480.T34
  - Metallography: TN693.T34
  - Metallurgy: TN799.T3
  - Prospecting: TN271.T3
- Taper
  - Airplanes: TL673.T4
- Tapes
  - Packaging materials: TS198.3.A3
- Tapestry
  - Hand weaving: TT849
  - Textile industries: TS1780
  - Wall decoration: TH8481
- Tapioca
  - Starch: TP416.T3
- Tapping of the line
  - Electrical engineering: TK3101
- Taps and dies
  - Fasteners: TJ1335
- Tar
  - Composition roofing: TH2451
- Taro
  - Cooking: TX803.T37
- Tarred roads: TE244
- Tartaric acid
  - Chemical technology: TP248.T27
- Tartrates
  - Chemical technology: TP248.T3
- Tassels
  - Decorative crafts: TT899.5
- Tatting
  - Textile arts: TT840.T38
- Taverns: TX950+
- Taxicabs: TL232.5
- TCP/IP
  - Computer network protocols: TK5105.585
- TDMA (Wireless communication systems): TK5103.486
- Tea
  - Adulteration: TX585
  - Chemical technology: TP650
  - Cooking: TX817.T3
  - Nonalcoholic beverages: TP638+
  - Nutrition: TX415
- Tea making paraphernalia
  - Cooking: TX657.T43
- Tear gas munitions
  - Manufactures: TS538.5
- Tearooms
  - Food service: TX945+
- Technetium
  - Water pollutants: TD427.T42
- Technical applications
  - Photography: TR692+
- Technical chemistry of plastics
  - Analysis: TP1140
- Technical education
  - Industrial engineering: T61+
- Technical hydraulics
  - Hydraulic engineering: TC160+
- Technical information
  - Communication: T10.5+
- Technical measurement: T50
- Technical processes
  - Ceramic technology: TP814
  - Plastics: TP1150+
- Technical schools
  - Industrial engineering: T61+
- Technical writing: T11+
- Technological change: T173.2+
- Technological forecasting: T174
- Technological innovations: T173.8
  - Chemical engineering: TP155.2.T43
  - Hazardous substances and their disposal: TD1050.T43
- Technology assessment: T174.5

## INDEX

Technology indicators: T174.2  
Technology transfer: T174.3  
Astronautics: TL865  
Tee stiffeners, Metal  
  Engineering and construction:  
    TA492.T4  
Teenage girls  
  Nutrition: TX361.T44  
Tehuantepec Canal: TC785  
Tehuantepec Ship Railway: TC786  
Telecommunication  
  Electrical engineering: TK5101+  
  Space vehicles: TL3025+  
Telecommunication as a profession:  
  TK5102.6  
Telecommunication lines: TK5103.15  
  Environmental effects: TD195.E37  
Telegraph  
  Aircraft communication: TL693+  
  Amateurs' manuals: TK9941+  
  Engineering: TK5107+  
  Railroad signaling: TF627+  
  Testing: TK5385  
Telegraph alphabets: TK5509  
Telegraph branch stations: TK5341  
Telegraph circuits, Wiring of: TK5441+  
Telegraph codes  
  Aircraft: TL694.C6  
Telegraph enterprises, Management of:  
  TK5283+  
Telegraph line: TK5301+  
Telegraph plants: TK5301+  
Telegraph stations: TK5301+  
Telegraph stations, Central: TK5321+  
Telegraph wires and cables: TK5481  
Telegraphing systems: TK5501+  
Telegraphones: TK6500  
Telematics  
  Computer networks: TK5105.6  
  Motor vehicles: TL272.58  
Telemeter systems  
  Electrical engineering: TK399  
Telemetry  
  Aircraft communication equipment:  
    TL694.T35  
  Rockets: TL784.T5  
Telephone: TK6001+

Telephone  
  Amateurs' manuals: TK9951  
  Railroad signaling: TF627+  
Telephone companies  
  Management: TK6183+  
Telephone connection systems:  
  TK6394+  
Telephone lines  
  Telephone connections: TK6351+  
Telephone plants: TK6201+  
Telephone receivers: TK6481  
Telephone stations: TK6201+  
Telephone stations, Central: TK6211+  
Telephone wiremen's manuals: TK6345  
Telephone wires and cables: TK6381+  
Telephonographs: TK6500  
Telephoto lenses  
  Photography: TR271.T44  
Telephotography: TR770  
Telescopic sights  
  Gunsmithing: TS535.2.T4  
Teletext systems: TK6679.7  
Teletype  
  Aircraft communication equipment:  
    TL694.T4  
Television: TK6630+  
  Aircraft communication: TL693+  
  Aircraft navigation equipment:  
    TL695+  
  Amateurs' manuals: TK9960+  
  Space vehicles: TL3040  
  Technical education: T65.5.T4  
Television as a profession: TK6644  
Television camera operation  
  Cinematography: TR882.5  
Television cameras  
  Cinematography: TR882+  
Television relay systems: TK6648+  
Television stations: TK6646  
  Building construction: TH4656  
Telford roads: TE241  
Tellurium: TN490.T5  
  Chemical technology: TP245.T3  
  Metallography: TN693.T4  
Telpherage  
  Conveying machinery: TJ1385+  
Telstar (Artificial satellite): TK5104.2.T4

## INDEX

- Tempeh
  - Cooking: TX814.5.T45
  - Food values: TX558.T39
- Temperature
  - Effects on viscous flow and yield strength: TA418.24+
- Temperature-dependent properties and tests: TA418.24+
- Temperature measurements
  - Steel: TN731
- Tempering
  - Steel metallurgy: TN752.T4
- Temporary storage of discarded materials
  - Nuclear engineering: TK9152.165
- Tenite
  - Plastics: TP1180.T4
- Tennis players
  - Nutrition: TX361.T45
- Tensile architecture
  - Structural engineering: TA660.T46
- Tension
  - Testing of materials: TA417.7.T4
- Tension leg platforms
  - Ocean engineering: TC1703
- Tensionmeter
  - Aeronautical instruments: TL589.2.T4
- Tensor analysis
  - Engineering mathematics: TA347.T4
- Tent making
  - Textile industries: TS1860
- Tequila
  - Distilled liquors: TP607.T46
- Terahertz technology
  - Electronics: TK7877
- Terbium
  - Chemical technology: TP245.T4
- Terephthalic acid
  - Chemical technology: TP248.T46
- Terminal management
  - Trains: TF590+
- Terminally ill
  - Photographic portraits: TR681.T47
- Terminals: TF300+
  - Computer engineering: TK7887.8.T4
  - Generators: TK2488
  - Transportation engineering: TA1225
- Termites
  - Deterioration of wood: TA423.7
- Terra-cotta
  - Architectural ceramics: TP835
  - Fire-resistive building construction: TH1077+
  - Masonry materials: TA432+
- Terrace houses
  - Construction: TH4825
- Terraces
  - Building construction: TH4970
- Test of vision
  - Railway operation: TF620
- Testing
  - Aircraft engines: TL701.8
  - Aircraft propellers: TL706.T4
  - Airplanes: TL671.7
  - Airships: TL660.4+
  - Alternating-current machinery: TK2723
  - Brick: TA433
  - Building gas supply: TH6860
  - Cast iron: TA475
  - Cement: TA435
  - Color photography: TR515
  - Concrete: TA440
  - Direct current machinery: TK2623
  - Dynamolectric machinery: TK2316
  - Electric machinery and appliances: TK401
  - Electric power distribution systems: TK3081
  - Electronics: TK7874.58
  - Fuel: TP321+
  - Heating of buildings: TH7341
  - Iron and steel: TA465
  - Leather industries: TS967
  - Line insulators: TK3246
  - Materials: TA410+
  - Metals: TA460
  - Military airplanes: TL685.3
  - Mortar: TA437
  - Motor vehicles: TL285
  - Packaging: TS195.8
  - Paper manufacture: TS1109
  - Plumbing: TH6241
  - Preservation of wood: TA424.2

## INDEX

### Testing

- Prime movers: TJ253
- Radio: TK6553
- Railway equipment: TF361
- Railway overroadon: TF537
- Reinforced concrete: TA445
- Roadmaking materials: TE205
- Rocket manufacture: TL784.5.T4
- Sewage sludge: TD767.4+
- Space vehicles: TL920
- Steam boilers: TJ297
- Steel: TA473
- Stone: TA427
- Telephone apparatus: TK6285
- Telephone line and material: TK6285
- Textile industries: TS1449
- Tobacco industry: TS2249
- Watches and clocks: TS548
- Wine and winemaking: TP548.5.A5
- Wood: TA420
- Wood pulp: TS1176.6.T4
- Wrought iron: TA470

### Testing laboratories

- Electrical engineering: TK411+
- Engineering: TA416+

### Testing machines

- Testing of materials: TA413+

### Testing methods

- Rock mechanics: TA706.5

### Testing of soils

- Soil mechanics: TA710.5

### Tests

- Air pilots: TL555
- Examination and analysis of food: TX551+
- Gas industry: TP754
- Steam engines: TJ475

- Tethered satellites: TL798.T47

### TETRA

- Wireless communication systems: TK5103.488

- Textile arts and crafts: TT699+

### Textile bleaching

- Chemical technology: TP890+

- Textile chemistry: TS1474.5

### Textile decoration

- Handicrafts: TT851+

### Textile design

- Textile industries: TS1475

### Textile dyeing

- Chemical technology: TP890+
- Textile decoration: TT853+

### Textile fabrics

- Packaging materials: TS198.3.T5
- Textile industries: TS1760+

### Textile factories

- Dust removal: TH7697.T4
- Electric power: TK4035.T4
- Fire prevention and extinction: TH9445.M5
- Heating and ventilation: TH7392.T47
- Ventilation: TH7684.T25

### Textile fibers

- Textile industries: TS1540+

### Textile finishing

- Textile arts: TT849.7

### Textile industry

- Energy conservation: TJ163.5.T48
- Environmental effects: TD195.T48
- Manufactures: TS1300+
- Noise control: TD893.6.T4
- Waste control: TD899.T4

### Textile machinery

- Electric driving: TK4059.T48
- Manufactures: TS1525

### Textile mills

- Air conditioning: TH7688.F3
- Building construction: TH4521

- Textile painting: TT851

### Textile printing

- Chemical technology: TP890+
- Textile arts and crafts: TT852+

### Textile roofing

- Building construction: TH2449

- Textile setting: TS1511

### Textile supplies

- Textile industries: TS1529+

### Textured soy protein

- Cooking: TX814.5.T48

### Textures

- Artistic photography: TR682

### Thallium

- Chemical technology: TP245.T5
- Environmental pollutants: TD196.T45

## INDEX

- Thanksgiving
  - Cooking: TX739.2.T45
- Thanksgiving decorations
  - Decorative crafts: TT900.T5
- Thatch roofing
  - Building construction: TH2435
- Thaw houses
  - Explosives: TP295
- Thawing of pipes
  - Plumbing: TH6685
- Theater photography: TR817
- Theaters
  - Electric lighting: TK4399.T6
  - Electric sound control: TK7881.9
  - Fire prevention and extinction:
    - TH9445.T3+
  - Heating and ventilation: TH7392.T5
  - Sanitary engineering: TH6057.T3
  - Ventilation: TH7684.T3
- Theodolite
  - Aeronautical instruments: TL589.2.T5
  - Surveying instruments: TA575
- Theory of structures
  - Structural engineering: TA645+
- Thermal analysis
  - Food: TX544
- Thermal batteries
  - Electrical engineering: TK2953
- Thermal conductivity
  - Thermal properties: TA418.54
- Thermal energy systems: TJ255+
- Thermal expansion
  - Properties of materials: TA418.56+
- Thermal pollution
  - Water pollutants: TD427.H4
- Thermal properties
  - Electronic apparatus and materials:
    - TK7870.25
  - Walls: TH1715+
- Thermal properties and tests
  - Engineering materials: TA418.52+
- Thermal stresses
  - Engineering materials: TA418.58
  - Structural engineering: TA654.8
- Thermionic converters
  - Electrical engineering: TK2955
- Thermistors
  - Electronics: TK7871.98
- Thermodynamics
  - Heat engines: TJ265
  - Mechanical engineering: TJ756
  - Refrigeration and icemaking: TP492.5
  - Space vehicles: TL900
  - Steam engines: TJ483.5.T47
- Thermodynamicsss
  - Chemical engineering: TP155.2.T45
- Thermoelectric cooling: TP492.9
- Thermoelectric devices
  - Space vehicles: TL1102.T4
- Thermoelectricity
  - Electrical engineering: TK2950+
- Thermoforming
  - Plastics: TP1151.T48
- Thermomechanical treatment
  - Steel metallurgy: TN752.T54
- Thermometers
  - Aeronautical instruments:
    - TL589.2.T53
  - Control engineering: TJ223.T4
  - Nuclear engineering: TK9183.T54
- Thermoplastics
  - Plastics: TP1180.T5
- Thermosetting plastics
  - Plastics: TP1180.T55
- Thermostatic expansion valves
  - Refrigeration and icemaking
    - machinery: TP495.3.T47
- Thermostats
  - Central heating: TH7466.5
  - Range water heaters: TH6557
- Thermosyphons: TJ263.2
- Thick-walled elements
  - Structural engineering: TA660.T48
- Thin film devices
  - Electronics: TK7872.T55
- Thin film transistors: TK7871.96.T45
- Thin films
  - Engineering materials: TA418.9.T45
- Thin layer chromatography
  - Food analysis: TX548.2.T48
- Thin-walled elements
  - Structural engineering: TA660.T5



## INDEX

- Thinners
  - Paints: TP937.7
- Third-rail railroads
  - Electric railways: TF890
- Thorium: TN490.T55
  - Chemical technology: TP245.T6
  - Metallography: TN693.T45
  - Metallurgy: TN799.T4
  - Prospecting: TN271.T4
- Thread manufacture
  - Cotton manufactures: TS1590
- Thread numbers
  - Textile industries: TS1450
- Three-dimensional display systems:
  - TK7882.T47
- Three-dimensional imaging
  - Applied optics: TA1560
- Three-dimensional integrated circuits:
  - TK7874.893
- Three-dimensional motion pictures:
  - TR854
- Three-dimensional printing
  - Industrial design: TS171.95
- Three-dimensional video
  - Digital video: TK6680.8.A15
- Three Gorges Dam (China):
  - TC558.C52S26
- Three-moment theorem: TA650+
- Three-phase current systems
  - Electrical engineering: TK3156
- Three-phase currents
  - Electrical engineering: TK1165
- Threshing machines
  - Agricultural machinery: TJ1486
- Thrift
  - Food shopping: TX356
- Through-the-wall imaging
  - Radar: TK6592.T48
- Thrust
  - Aerodynamics: TL574.L5
  - Aircraft propellers: TL706.T5
  - Rockets: TL784.T4
- Thrust reversers
  - Jet engines: TL709.5.T5
- Thulium
  - Chemical technology: TP245.T7
- Thyratrons
  - Electronics: TK7871.83
- Thyristors
  - Electronics: TK7871.99.T5
- Tidal power
  - Hydraulic engineering: TC147
- Tie-dyeing
  - Textile decoration: TT853.5
- Tie plates
  - Railway construction: TF257
- Ties
  - Railway construction: TF252+
- Tile
  - Building construction: TH8541+
  - Cement manufacture: TP885.P5
  - Decorative furnishings: TH8521+
  - Fire-resistive building construction: TH1077+
  - Masonry materials: TA432+
- Tile-concrete combination systems
  - Fire-resistive-building construction: TH1089
- Tile craft
  - Decorative crafts: TT927
- Tile industry
  - Waste control: TD899.T55
- Tile roofing
  - Building construction: TH2448
- Tilefish
  - Cooking: TX748.T54
- Tilelaying
  - Decorative furnishings: TH8521+
- Tiles
  - Architectural ceramics: TP837
  - Plastic: TP1185.T5
- Tilt
  - Photography in surveying: TA593.9.T54
- Timber and concrete
  - Masonry materials: TA442
- Timbering
  - Mine ground control: TN289
- Timbers
  - Aeronautics: TL699.W6
- Time and motion study
  - Industrial engineering: T60+

## INDEX

- Time code
  - Editing of motion pictures: TR899.5
- Time dependent properties and tests:
  - TA418.3+
- Time-lapse photography
  - Cinematography: TR857
- Time measurement, Methods
  - Industrial engineering: T60.52
- Time measurements
  - Electronics: TK7878.2
- Time schedules
  - Railway operation: TF565
- Time stamps industry: TS2301.T5
- Time study
  - Industrial engineering: T60.4+
  - Machine shops: TJ1143
- Timekeeping
  - Highway engineering: TE185
- Timers
  - Control engineering: TJ223.T5
- Timing
  - Electronic circuits: TK7868.T5
- Timing belts
  - Gasoline automobiles: TL214.T55
- Timing chains
  - Gasoline automobiles: TL214.T55
- Tin
  - Chemical technology: TP245.T8
  - Effect on food: TX572.T6
  - Engineering materials: TA480.T5
  - Metallurgy: TN793
  - Ore deposits and mining: TN470+
  - Ore dressing and milling: TN538.T55
  - Prospecting: TN271.T5
  - Utilization of waste: TP996.T5
- Tin can craft: TT266+
- Tin industry
  - Dust removal: TH7697.T5
- Tin mines and mining
  - Environmental effects: TD195.T56
- Tin ores
  - Assaying: TN580.T5
- Tin roofing
  - Building construction: TH2455
- Tin shingling
  - Building construction: TH2455
- TINA (Computer network protocols):
  - TK5105.586
- Tinning
  - Metal finishing: TS660
- Tinplate
  - Manufactures: TS590+
- Tinsmithing: TS600+
- Tinsmiths' supplies
  - Manufactures: TS619
- Tinting
  - Mechanical drawing: T357
- Tintype
  - Photography: TR375
- Tinware
  - Manufactures: TS619
- Tinwork
  - Handicrafts: TT266+
- Tipping
  - Aircraft propellers: TL707.T5
- Tips of wings
  - Airplanes: TL673.T4
- Tire houses
  - Building construction: TH4818.T57
- Tires
  - Airplanes: TL683.T5
  - Cycles: TL425
  - Motor vehicles: TL270
- Tissue paper: TS1168
- Titanium: TN490.T6
  - Aeronautics: TL699.T56
  - Chemical technology: TP245.T85
  - Electronics: TK7871.15.T56
  - Electroplating: TS692.T5
  - Engineering and construction:
    - TA480.T54
  - Manufactures: TS562
  - Metallography: TN693.T5
  - Metallurgy: TN799.T5
  - Ore dressing and milling: TN538.T57
  - Powder metallurgy: TN697.T5
  - Prospecting: TN271.T55
- Titanium steel
  - Metallurgy: TN757.T5
- Titling
  - Motion picture film: TR886.9

## INDEX

- TK toolkit
  - Web authoring software: TK5105.8885.T54
- TLV
  - High speed ground transportation: TF1560+
- TMN
  - Electrical engineering: TK5105.45
- TNT
  - Explosives: TP290.T8
- Toaster oven cooking: TX840.T63
- Toasters
  - Cooking: TX657.T58+
- Tobacco industry
  - Manufactures: TS2220+
- Tocopherol
  - Chemical technology: TP248.T55
- Tofu
  - Cooking: TX814.5.T63
  - Food processing: TP438.S6
  - Food values: TX558.T57
- Toilet rooms
  - Plumbing: TH6485+
- Toilets
  - Plumbing: TH6498
- Tole painting: TT385
- Tolerances
  - Product engineering: TS172
- Toluene
  - Chemical technology: TP248.T6
  - Petroleum products: TP692.4.T6
- Tomato juice
  - Cooking: TX814.5.T64
- Tomato paste
  - Cooking: TX814.5.T65
- Tomatoes
  - Adulteration: TX595.T6
  - Cooking: TX803.T6
  - Food processing and manufacture: TP444.T6
  - Food values: TX558.T6
  - Preservation and storage: TX612.T7
- Tombstones
  - Stonework: TS788
- Ton-miles
  - Railway operation: TF555
- Tongs
  - Machine shops: TJ1201.T64
- Toning
  - Photographic positives: TR335
- Tool cars
  - Railway equipment: TF485
- Tool life
  - Equipment analysis: TS181.4
- Tool steel
  - Metal manufactures: TS320
- Toolboxes
  - Woodworking: TT197.5.T65
- Toolrooms
  - Plant service facilities: TS189.3
- Tools
  - Building construction: TH915
  - Carpentry: TH5618
  - Engineering: TA213+
  - Fermentation industries: TP517
  - Handrail joinery: TH5677
  - Joinery: TH5618
  - Stonecutting: TH5440
  - Stonemasonry: TH5440
  - Street cleaning: TD860
  - Textile arts: TT845
  - Woodworking: TT186
- Toon Boom animate
  - Computer animation software: TR897.72.T66
- Toothed gears
  - Mechanical engineering: TJ184+
- Topographic drawing
  - Surveying: TA616
- Topographical surveying: TA590
- TOPS: TK5105.8.T65
- Torches: TP743
- Torquemeters
  - Machinery exclusive of prime movers: TJ1053.5
- Torsion
  - Testing of materials: TA417.7.T6
- Tortillas
  - Cooking: TX770.T65
- Tote bags
  - Clothing manufacture: TT667
- Toupees
  - Hairwork: TT975

## INDEX

- Tourism
  - Wine and winemaking: TP548.5.T68
- Tourist trade
  - Environmental effects: TD195.T68
- Towels
  - Textile industries: TS1781
- Towers
  - Building design and construction: TH2180
  - Electric power: TK3242
  - Structural engineering: TA660.T6
- Towing
  - Canals: TC767+
  - Motor vehicles: TL153.7
- Towing apparatus
  - Aeronautical research: TL567.T6
- Toy balloons: TL633
- Toy industry
  - Manufactures: TS2301.T7
- Toy-knitting: TT829
- Toys
  - Handicrafts: TT174+
- Trace elements
  - Assaying: TN580.T73
  - Environmental pollutants: TD196.T7
  - Food constituent: TX553.T7
  - Water pollutants: TD427.T7
- Track
  - Electric railways: TF870+
  - Railway construction: TF240+
- Track maintenance equipment
  - Railway operation: TF538.5
- Track tanks
  - Railway structures: TF271
- Tracked air cushion vehicle
  - High speed ground transportation: TF1580
- Tracked levitated vehicle
  - High speed ground transportation: TF1560+
- Tracking
  - Hazardous substances and their disposal: TD1050.T73
- Tracklaying machinery
  - Railway construction: TF248
- Tracklaying vehicles: TL234+
- Trackmasters' manuals: TF538
- Traction
  - Motor vehicles: TL295
- Traction drives
  - Mechanical engineering: TJ1095
- Traction engines: TJ700
- Traction tests
  - Highway engineering: TE450
  - Motor vehicles: TL295
- Tractor driving: TL233.3
- Tractor propellers: TL706.P8
- Tractor pulling (Motorsports): TL233.3
- Tractors: TL233+
- Trade publications
  - Stationery: TS1238
- Trade shows
  - Technology: T391+
- Trademarks: T325
  - Paper manufacture: TS1115
- Traffic
  - Electrical engineering: TK5102.985
- Traffic circles
  - Highway engineering: TE176.5
- Traffic control
  - Airports: TL725.3.T7
- Traffic control devices
  - Highway engineering: TE228
- Traffic operation
  - Railway operation: TF650+
- Trafficability of soils: TE208.5
- Trail bikes: TL441
- Trailers
  - Motor vehicles: TL297+
- Trails
  - Highway engineering: TE304
- Train dispatching
  - Railroad operation: TF563
- Train resistance
  - Railway operation: TF552
- Train rules
  - Railway operation: TF559
- Train running
  - Railway operation: TF556
- Train speed
  - Railway operation: TF553+
- Train telegraph systems: TK5569.T7

## INDEX

- Training
  - Hotels, clubs, restaurants, etc.: TX911.3.T73
- Training equipment
  - Astronautics: TL1570+
- Trainload
  - Railway operation: TF555
- Trainmen's manuals
  - Railway operation: TF557+
- Trains
  - Railway operation: TF550+
- Transaxles: TL265
- Transducers
  - Control engineering: TJ223.T75
  - Electronics: TK7872.T6
- Transfer functions
  - Engineering mathematics: TA347.T7
- Transfer machines
  - Machine tools: TJ1185.5
- Transfer pictures industry: TS2301.T9
- Transfer printing
  - Textile decoration: TT852.7
- Transfer tables
  - Railway structures: TF276
- Transfer, Technology: T174.3
- Transfer work, Iron-on
  - Textile decoration: TT852.7
- Transformation of electricity
  - Electrical engineering: TK3107
- Transformers
  - Amateurs' manuals: TK9915
  - Electronics: TK7872.T7
  - Radio: TK6565.T7
  - Television: TK6655.T7
- Transforming machinery
  - Dynamolectric machinery: TK2551
- Transistor amplifiers
  - Electronics: TK7871.2
- Transistor radios: TK6564.T7
- Transistors
  - Semiconductors: TK7871.9+
- Transit and theodolite
  - Surveying instruments: TA575
- Transition metal compounds
  - Metallography: TN693.T7
- Transition spiral
  - Railroad surveying: TF217
- Translating
  - Patents: T210.2
  - Technical information: T11.5
- Translating services
  - Patents: T210.2
- Transmission devices
  - Motor vehicles: TL262+
- Transmission gears
  - Mechanical engineering: TJ204
- Transmission lines
  - Electronics: TK7872.T74
  - Radio: TK6565.T73
- Transmission of electric power
  - Electrical engineering: TK3001+
- Transmit-receive tubes
  - Radar: TK6590.T72
- Transmitter-receiver units
  - Radar: TK6587
- Transmitter-receivers, Radio:
  - TK6564.3+
- Transmitters
  - Radio: TK6561
  - Telephone: TK6475+
- Transmitting
  - Aircraft communication equipment: TL694.T7
- Transmitting apparatus
  - Radar: TK6587
  - Television: TK6651
- Transmutation
  - Radioactive waste disposal: TD898.178
- Transoceanic flights: TL531
- Transonic aerodynamics: TL571
- Transpacific routes
  - Air routes: TL726.15
- Transparencies
  - Photography: TR504+
- Transport centers
  - Transportation engineering: TA1225
- Transport planes: TL685.7
- Transport processes
  - Chemical engineering: TP156.T7
- Transport theory
  - Food processing: TP370.9.T73
- Transportation
  - Energy conservation: TJ163.5.T7

## INDEX

- Transportation
  - Engineering materials: TA403.6
  - Environmental effects: TD195.T7
  - Food: TP373.2
  - Noise control: TD893.6.T7
  - Papermills: TS1116.6
  - Radioactive substances: TK9152.17
- Transportation, Air
  - Environmental effects: TD195.A27
- Transportation engineering: TA1001+
- Transportation industries
  - Fire prevention and extinction: TH9445.T7
- Transportation method
  - Linear programming: T57.78
- Transportation systems, Urban: TA1205+
- Transputers
  - Computer engineering: TK7895.T73
- Transvestites
  - Photographic portraits: TR681.T7
- Traps
  - Petroleum geology: TN870.57
  - Plumbing: TH6631+
- Trashracks
  - Dams: TC554
- Travel cinematography: TR896.5
- Travel photography: TR790
- Traveling-wave tubes
  - Electronics: TK7871.77
- Travelling cranes
  - Hoisting machinery: TJ1365
- Traverses
  - Surveying: TA585
- Travertine
  - Masonry materials: TA428.T73
- Trays
  - Wood products: TS913
- Treadmills
  - Renewable energy sources: TJ830
- Treatment facilities, Ballast water
  - Water pollution: TD428.B34
- Tree houses
  - Construction: TH4885
- Tree planting
  - Coast protective works: TC340
  - River protective works: TC537
- Trees
  - Nature photography: TR726.T7
- Trestle bridges: TG365+
- Triangular wings
  - Airplanes: TL673.T7
- Triangulation for engineering works: TA583
- Triangulation, Photographic: TA593.8+
- Tributyltin
  - Water pollutants: TD427.T73
- Trichloroethylene
  - Air pollutants: TD887.T75
  - Chemical technology: TP248.T7
  - Water pollutants: TD427.T75
- Trick cinematography: TR858
- Trick photography: TR148
- Tricolor photography: TR520
- Tricycles: TL410+
- Trigger
  - Electronic circuits: TK7868.T7
- Trigonometric leveling
  - Surveying: TA609
- Trihalomethanes
  - Water pollutants: TD427.T77
- Trimming
  - Women's tailoring: TT552
- Trimming of prints
  - Photographic processing: TR340
- Trimmings
  - Silk manufactures: TS1687
  - Window and door openings: TH2261+
- Trinitrotoluene
  - Explosives: TP290.T8
- Triplanes: TL684.5
- Triple expansion
  - Steam engines: TJ501+
- Tripoli
  - Mining engineering: TN948.T74
- Tripolitanian style cooking: TX724.2.T75
- Triticale
  - Food values: TX558.T7
- Tritium
  - Environmental pollutants: TD196.T74
- Triumph motorcycle: TL448.T7
- Trochotrons: TK7871.79.T7

## INDEX

Troilite  
Ore dressing and milling: TN538.T74  
Trolley (overhead wiring)  
Electric railways: TF885  
Trona  
Mining engineering: TN948.T76  
Tropical photography: TR795  
Tropical woods  
Woodpulp industry: TS1176.4.T7  
Tropospheric scatter communication systems: TK6570.T76  
Trousers  
Men's tailoring: TT605  
Women's tailoring: TT542  
Trout  
Cooking: TX748.T74  
TRS-80 computer: TK7889.T77  
Truck driver training: TL230.3  
Truck driving: TL230.3  
Truck-mounted campers: TL298  
Truck-mounted coaches: TL298  
Truck trailers  
Motor vehicles: TL297.6  
Trucking  
Water pollution: TD428.T78  
Trucks: TL230+  
Human engineering in design: TL250  
Truffles  
Cooking: TX804.5  
Trunked radio  
Wireless communication systems: TK5103.488  
Truss bridges: TG375+  
Trusses  
Cement manufacture: TP885.T7  
Reinforced concrete construction: TA683.5.T7  
Structural engineering: TA660.T8  
Try cocks  
Steam boilers: TJ363  
Tube vehicle system  
High speed ground transportation: TF1620  
Tubes  
Aeronautics: TL699.T8  
Manufactures: TS1920  
Metal manufactures: TS280+

Tubes, Metal  
Engineering and construction: TA492.T8  
Tubs  
Plumbing: TH6493  
Tubular bag systems  
Fire prevention and extinction: TH9416  
Tubular bridges: TG390  
Tubular radiators  
Hydronic systems: TH7488  
Tul'skiï motor scooters: TL453.T84  
Tumblr  
Web authoring software: TK5105.8885.T85  
Tuna  
Cooking: TX748.T84  
Tunable lasers  
Applied optics: TA1706  
Tuned amplifiers: TK7871.58.T8  
Tuners  
Television: TK6655.T8  
Tung oil  
Chemical technology: TP684.T8  
Tungsten  
Chemical technology: TP245.T9  
Electronics: TK7871.15.T85  
Electroplating: TS692.T8  
Engineering and construction: TA480.T9  
Metallography: TN693.T94  
Metallurgy: TN799.T9  
Prospecting: TN271.T8  
Tungsten alloys  
Engineering materials: TA479.T8  
Tungsten lamps  
Electric lighting: TK4359.T9  
Tungsten ores: TN490.T9  
Tungsten steel  
Metallurgy: TN757.T9  
Tunnel diodes  
Semiconductors: TK7871.87  
Tunnel kilns: TP842.T8  
Tunneling  
Engineering: TA800+  
Mining: TN285  
Noise control: TD893.6.T86

## INDEX

### Tunnels

Engineering: TA800+  
Fire prevention and extinction:  
TH9445.T8

Railway construction: TF230+

### Turbine-propeller engines

Aeronautics: TL709.3.T8

### Turbines: TJ266+

Jet engines: TL709.5.T87

Water wheels: TJ870+

### Turbochargers

Gasoline automobiles: TL214.T87

### Turbofan engines

Aeronautics: TL709.3.T82

### Turbojet engines

Aeronautics: TL709.3.T83

### Turbomachines: TJ266+

Electric driving: TK4059.T87

### Turbulence

Aerodynamics: TL574.T8

Applied fluid mechanics: TA357.5.T87

### Turkeys

Cooking: TX750.5.T87

### Turn and bank indicator

Aeronautical instruments: TL589.2.T8

### Turning

Handicrafts: TT201+

### Turning machines

Machine shops: TJ1215+

### Turnips

Cooking: TX803.T87

### Turnouts

Railroad surveying: TF216

Railway construction: TF264

### Turntables

Railway structures: TF275

### Turpentine

Organic chemical industries: TP977+

### Turquoise

Jewelry work: TS755.T8

### Turtles

Nutrition: TX388.T8

### Tuscan style cooking: TX723.2.T86

### TV (Microsoft)

Web authoring software:  
TK5105.8885.M545

### TVS

High speed ground transportation:  
TF1620

### Tweezers, Optical

Electronics: TK8360.O69

### Twin-engine flying

Airplanes: TL711.T85

### Twine

Textile fiber: TS1795

### Twins

Photographic portraits: TR681.T85

### Twisted gears

Mechanical movements: TJ192

### Twisted plates

Structural engineering: TA660.P65

### Twisting and twisting machinery

Textile industries: TS1487.5

### Two-phase current systems

Electrical engineering: TK3153

### Two-phase currents

Electrical engineering: TK1151

### Two-phase flow

Applied fluid mechanics:  
TA357.5.M84

### Two-pipe systems

House drainage: TH6604

Low-pressure hot water heating:  
TH7525

Steam heating: TH7567

### Two-stroke cycle engines

Gasoline automobiles: TL210.5

### Two-stroke engines

Internal combustion engines: TJ790

### Two-way radio: TK6553

### Typewriter art

Decorative crafts: TT869

### Tysonite

Mining engineering: TN948.T9

## U

### U.S. Army Round-the-rim flight:

TL721.U58

### U.S. Army world flight: TL721.U6

U.S. National Aeronautics and Space  
Administration: TL521.3+



## INDEX

- Ultra large scale integrated circuits:
  - TK7874.76
- Ultra-wideband antennas:
  - TK7871.67.U45
- Ultra-wideband communication systems:
  - TK5103.4515
- Ultra-wideband radar: TK6592.U48
- Ultrafax
  - Facsimile transmission: TK6720
- Ultrahigh frequency apparatus
  - Television: TK6655.U6
- Ultralight aircraft: TL685.15
- Ultrasonic machining
  - Machine tools: TJ1191
- Ultrasonic testing
  - Testing of materials: TA417.4
- Ultrasonic transducers: TK5982
- Ultrasonic welding: TS228.92
- Ultrasonics
  - Chemical engineering: TP156.A33
- Ultrasound
  - Food preservation: TP372.4
- Ultraviolet ray treatment
  - Sewage disposal: TD747.5
  - Water purification: TD460
- Ultraviolet technology
  - Applied optics: TA1600
- Umbrellas
  - Textile industries: TS1865
- Unauthorized users of water: TD497
- Underbalanced drilling
  - Petroleum engineering: TN871.33
- Undercarriage
  - Airplanes: TL682+
- Underground conduits
  - Electric railways: TF895
- Underground construction: TA712
- Underground factories
  - Building construction: TH4518
- Underground flow
  - Hydrodynamics: TC176
- Underground gasification of coal:
  - TP759
- Underground lines
  - Electric power: TK3251+
  - Telegraph: TK5465+
- Underground railways
  - Engineering: TF845+
- Underground roads
  - Mines: TN333
- Underground shopping centers
  - Fire prevention and extinction:
    - TH9445.U5
- Underground storage
  - Gas industry: TP756.5
- Underground telephone lines: TK6365
- Underground utility lines
  - City planning: TD168
- Undershirts
  - Clothing manufacture: TT675
- Undershot water wheels: TJ864
- Undertakers' supplies industry:
  - TS2301.U5
- Underwater acoustic telemetry:
  - TK5103.52
- Underwater cinematography: TR893.8
- Underwater construction
  - Cement and concrete construction:
    - TA682.485
- Underwater mining: TN291.5
- Underwater photography: TR800
- Underwater pipelines
  - Ocean engineering: TC1800
- Underwater television: TK6679.5
- Underwear
  - Clothing manufacture: TT669+
- Unfermented apple juice: TP564
- Unfermented grape juice
  - Beverages: TP560
- Unidentified flying objects: TL789+
- Uniforms
  - Fire prevention and extinction:
    - TH9395+
  - Men's clothing: TT625
- UNISURF CAD
  - Computer-aided engineering:
    - TA345.5.U53
- Unit trains: TF583
- Univac computer: TK7889.U6
- Universal joints
  - Machinery: TJ1059

## INDEX

- Universal Mobile Telecommunications System
    - Wireless communication systems: TK5103.4883
  - Universities
    - Energy conservation: TJ163.5.U5
    - Plumbing: TH6515.S4
  - University buildings
    - Heating and ventilation: TH7392.S35
  - Unloading and loading
    - Materials handling: TS180.5
  - Unpaved roads
    - Highway engineering: TE230+
  - Unsaturated fatty acids
    - Food constituent: TX553.U5
  - Unsteady flow
    - Aerodynamics: TL574.U5
    - Applied fluid mechanics: TA357.5.U57
  - Upgrading
    - Computer engineering: TK7887
  - Upholstering
    - Handicrafts: TT198
  - Upholstery
    - Fire testing: TH9446.5.U63
    - Motor vehicles: TL256
  - Upholstery leather: TS980.U6
  - Uppers
    - Leather: TS980.U7
  - Ural computer
    - Computer engineering: TK7889.U7
  - Uranium
    - Chemical technology: TP245.U7
    - Engineering materials: TA480.U7
    - Metallography: TN693.U7
    - Metallurgy: TN799.U7
    - Ore deposits and mining: TN490.U7
    - Ore dressing and milling: TN538.U7
    - Prospecting: TN271.U7
  - Uranium as fuel: TK9363
  - Uranium industry
    - Environmental effects: TD195.U7
    - Waste control: TD899.U73
  - Uranium mines and mining
    - Water pollution: TD428.U73
  - Uranium steel
    - Metallurgy: TN757.U7
  - Urban runoff
    - Sewage collection and disposal systems: TD657+
  - Urban transportation systems: TA1205+
  - Urea
    - Chemical technology: TP248.U7
    - Environmental pollutants: TD196.U73
    - Fertilizers: TP963.4.U7
  - Urea-formaldehyde resins
    - Plastics: TP1180.U7
  - Urethanes
    - Effect on food: TX571.P63
  - Urinals
    - Plumbing: TH6499
  - Usenet
    - Computer networks: TK5105.875.U83
  - User's plant
    - Electric power: TK3201+
  - Utensils
    - Cooking: TX656+
  - Utility lines, Underground
    - City planning: TD168
- V
- Vacation cinematography: TR896.5
  - Vaccines
    - Biotechnology: TP248.65.V32
  - Vacoa weaving
    - Decorative crafts: TT877.5
  - Vacuum lifters
    - Hoisting machinery: TJ1360
  - Vacuum metallurgy
    - Electrometallurgy: TN686.5.V3
  - Vacuum microelectronics: TK7874.9
  - Vacuum processes
    - Cement and concrete construction: TA682.47
  - Vacuum pumps: TJ940.5
  - Vacuum system
    - Dust removal: TH7695.V2
  - Vacuum technology
    - Chemical engineering: TP156.V3
    - Mechanical engineering: TJ940+
  - Vacuum-tube amplifiers
    - Electronics: TK7871.2

## INDEX

- Vacuum tubes
  - Chemical technology: TP159.V3
  - Electronics: TK7871.72+
  - Radio: TK6565.V3
- Valentine's Day
  - Cooking: TX739.2.V34
- Valentine's Day decorations
  - Decorative crafts: TT900.V34
- Valuation
  - Engineering economy: TA178
  - Hotels, clubs, restaurants, etc.: TX911.3.V34
- Value-added networks
  - Electrical engineering: TK5105.84
- Value analysis
  - Cost control: TS168
- Value engineering
  - Cost control: TS168
- Valve gears
  - Locomotives: TJ665
  - Steam engines: TJ547+
- Valves
  - Aircraft engines: TL702.V3
  - Balloons: TL625.V3
  - Chemical technology: TP159.V34
  - Control engineering: TJ223.V3
  - Gasoline automobiles: TL214.V3
  - Hot water heating: TH7543
  - Hydronic systems: TH7478
  - Locomotives: TJ665
  - Metal manufactures: TS277
  - Plumbing explosion prevention: TH6566
  - Steam heating: TH7593
  - Water distribution systems: TD491
  - Water supply plumbing: TH6528
- Vanadium
  - Chemical technology: TP245.V2
  - Environmental pollutants: TD196.V35
  - Metallography: TN693.V3
  - Metallurgy: TN799.V3
  - Ore deposits and mining: TN490.V2
  - Water pollutants: TD427.V36
- Vanadium steel
  - Engineering materials: TA479.V3
  - Metallurgy: TN757.V3
- Vanaspati
  - Chemical technology: TP684.V36
- Vanes
  - Building construction: TH2495
- Vanguard: TL796.5.U6V3
- Vanilla
  - Cooking: TX819.V35
- Vanners
  - Ore dressing and milling: TN520+
- Vans: TL230+
- Vapor lamps and systems
  - Electric lighting: TK4381
- Vapor-plating
  - Metal finishing: TS695+
- Varactors
  - Semiconductors: TK7871.88
- Variable air volume systems
  - Air conditioning: TH7687.95
- Variable speed generators: TK2448
- Variety meats
  - Cooking: TX749.5.V37
- Varistors
  - Electronics: TK7871.99.V3
- Varnish
  - Insulating material: TK3441.V3
- Varnishes
  - Chemical technology: TP938
- Varnishing
  - Handicrafts: TT300+
  - Wood finishing: TT340
- Vases
  - Decorative crafts: TT899.6
- Vat dyes
  - Textile dyes: TP918.V37
- Vaults
  - Building design and construction: TH2160
  - Security in buildings: TH9734
- Vector analysis
  - Engineering mathematics: TA347.V4
- Vegetable fats
  - Chemical technology: TP680+
- Vegetable-fiber work
  - Decorative crafts: TT873+
- Vegetable fibers
  - Textile industries: TS1541+

## INDEX

- Vegetable foods
  - Nutrition: TX391+
- Vegetable juices
  - Food values: TX558.V4
- Vegetable oils
  - Chemical technology: TP680+
  - Fuel: TP359.V44
- Vegetable products
  - Food processing: TP443+
- Vegetables
  - Cooking: TX801+
  - Food processing: TP443+
  - Food values: TX557+
  - Nutrition: TX401+
  - Preservation and storage: TX612.V4
- Vegetarian cooking: TX837+
- Vegetarianism
  - Nutrition: TX392+
- Vegetation
  - Roadside development: TE178
- Vehicles
  - Aerodynamics: TA359
  - Fire prevention and extinction:
    - TH9370+
  - Handicrafts: TT174.5.V43
  - Vibration: TA356
- Vehicular ad hoc networks: TE228.37
- Vehicular tunnels
  - Engineering: TA800+
- Velocipedes: TL405
- Velomobiles: TL437.5.V45
- Velvets
  - Silk manufactures: TS1675
- Vending machines
  - Mechanical engineering: TJ1560
- Veneering
  - Manufactures: TS870
- Veneers
  - Wall details: TH2251.5
  - Wood products: TS870
- Venison
  - Food values: TX556.V4
- Vent piping
  - House drainage: TH6668
- Vent stack
  - House drainage: TH6666
- Vent stack systems
  - House drainage: TH6665+
- Ventilating machines
  - Mining engineering: TN303
- Ventilation
  - Buildings: TH7646.92+
  - Prisons: TH7392.P8
  - Railway equipment: TF445+
  - Railway tunnels: TF235
  - Sewers: TD692
  - Transportation engineering: TA1280
  - Tunneling: TA814
- Ventilation of mines: TN301+
- Ventilation radiators
  - Hydronic systems: TH7490
- Ventilators
  - Artificial ventilation of buildings:
    - TH7678+
  - Building design and construction:
    - TH2486+
  - Ventilation of buildings: TH7683.V4
- Venting for appliances
  - Gas in buildings: TH6835
- Ventriloquists' dummies
  - Photography: TR658.58
- Vents
  - Plumbing: TH6631+
- Venturi scrubber
  - Dust removal: TH7695.V45
- Venus (Planet)
  - Flight to: TL799.V45
- Veranda roofs
  - Building construction: TH2425
- Verjuice
  - Flavoring aid: TP428
- Vermiculite
  - Engineering materials: TA455.V4
  - Mining engineering: TN948.V4
- Vernacular photography: TR689
- Vertical drains: TC974.2
- Vertical evacuation structures
  - Building construction: TH1096.5
- Vertical multitubular steam boilers
  - Mechanical engineering: TJ312
- Vertical seismic profiling: TN269.86
- Vertical stabilizer
  - Airplanes: TL677.F5

## INDEX

- Vertically rising aircraft
  - Aeronautical engineering: TL685
- Very high speed integrated circuits
  - Electronics: TK7874.7
- Very large scale integrated circuits
  - Electronics: TK7874.75
- Vespa motor scooters: TL453.V47
- Vests
  - Men's tailoring: TT615
- Veterans
  - Nutrition: TX361.V47
- Veterinary drug residues
  - Effect on food: TX571.V48
- Vibration
  - Aerodynamics: TL574.V5
  - Aircraft propellers: TL706.V4
  - Bridge engineering: TG265
  - Engineering: TA355
  - Machinery: TJ177
  - Motor vehicle dynamics: TL246
  - Vehicles: TA356
- Vibration control
  - Electroacoustics: TK5981.5
- Vibration methods
  - Reinforced concrete construction: TA683.46
- Vibration processes
  - Cement and concrete construction: TA682.46
- Vibrations
  - Structural analysis: TA654+
- Vibrators
  - Chemical technology: TP159.V52
  - Mechanical engineering: TJ208
- Vibroseis
  - Seismic prospecting: TN269.88
- Vici kid
  - Leather: TS980.V6
- Victorium
  - Chemical technology: TP245.V5
- Vicuna
  - Textile fiber: TS1548.V5
- Video amplifiers: TK7871.58.V5
- Video disc equipment
  - Electronics: TK6685
- Video discs
  - Electronics: TK6685
- Video game equipment
  - Electronics: TK6681
- Video games
  - Amateurs' manuals: TK9971
- Video recorders, Digital
  - Television: TK6655.D54
- Video recording
  - Amateurs' manuals: TK9961
- Video recording, Lighting for
  - Cinematography: TR891
- Video recordings
  - Photography: TR845+
- Video surveillance
  - Television: TK6680.3
- Video tape recorders
  - Amateurs' manuals: TK9961
  - Television: TK6655.V5
- Video telephones: TK6505
- View cameras
  - Photography: TR258
- Vigorit
  - Explosives: TP290.V5
- Viking Mars Program: TL789.8.U6V64
- Vinegar
  - Cooking: TX819.V5
  - Flavoring aid: TP429+
- Vinegar, Wood
  - Chemical technology: TP248.A18
- VINES: TK5105.8.V56
- Vinidur
  - Plastics: TP1180.V42
- Vinyl
  - Plastics: TP1180.V48
  - Textile fiber: TS1548.7.V5
- Vinyl chloride
  - Air pollutants: TD887.V55
- Vinyl flooring: TH2529.P5
- Viper automobile: TL215.V544
- Viruses
  - Water pollutants: TD427.V55
- Viscoelasticity
  - Plastic properties and tests: TA418.2
- Viscous flow
  - Applied fluid mechanics: TA357.5.V56
  - Plastic properties and tests: TA418.2
  - Temperature effects: TA418.24+

## INDEX

- Vises
    - Handtools: TJ1201.V5
  - Visibility
    - Aeronautical meteorology: TL557.V5
  - Visitors, Foreign
    - Photographic portraits: TR681.V58
  - Visual InterDev (Microsoft)
    - Web authoring software:
      - TK5105.8885.M55
  - Vitamins
    - Biotechnology: TP248.65.V57
    - Food constituent: TX553.V5
    - Food constituents: TP453.V5
  - Vitrification
    - Ceramic technology: TP815
    - Radioactive waste disposal:
      - TD898.179
  - Vocational guidance
    - Carpentry and joinery: TH5608.8
    - Cooking: TX652.4
    - Hairdressing: TT958
    - Hospitality industry: TX911.3.V62
    - Pollution control personnel: TD177.8
    - Textile industries: TS1463
    - Watch and clock manufactures:
      - TS545.9
    - Welding: TS227.7
  - Vodka
    - Distilled liquors: TP607.V6
  - Voice of the air
    - Airplane advertising: TL722.5
  - Volatile organic compounds
    - Air pollutants: TD887.V65
  - Volcanic ash, tuff, etc.
    - Aeronautical meteorology: TL557.V64
    - Water pollutants: TD427.V64
  - Voltage detectors
    - Electrical engineering: TK321
  - Voltage dividers
    - Electronics: TK7872.V53
  - Voltage-frequency converters
    - Electronics: TK7872.V54
  - Voltage meters and measurements
    - Electrical engineering: TK321
  - Voltage regulators
    - Electronics: TK7872.V55
    - Radar: TK6590.V6
  - Voltage regulators
    - Radio: TK6565.V6
  - Voltage waveforms
    - Electrical engineering: TK531
  - Voltameters
    - Electrical engineering: TK331
  - Voltmeters
    - Electrical engineering: TK321
    - Electronics: TK7879+
  - Voltmeters, Vacuum tube
    - Electronics: TK7879.2
  - Voltohmeters: TK325
  - Vortex theory
    - Aerodynamics: TL574.V6
  - Vortex tubes: TJ264.5
  - VSATs
    - Artificial satellites: TK5104.2.V74
  - VueScan: TR267.5.V84
  - Vulcanizing
    - Rubber industry: TS1891
- W
- Waffles
    - Cooking: TX770.P34
  - Wagonmaking
    - Manufactures: TS2001+
  - Wainscots
    - Building construction: TH2547
  - Waiters, Manuals for
    - Hotels, clubs, restaurants, etc.:
      - TX925
  - Waiting line problems
    - Industrial engineering: T57.9
  - Waitresses, Manuals for
    - Hotels, clubs, restaurants, etc.:
      - TX925
  - Wakes
    - Aerodynamics: TL574.W3
  - Walkie-talkies
    - Radio: TK6565.W25
  - Wall coils
    - Radiators: TH7484
  - Wall decoration
    - Building construction: TH8403+
  - Wall hangings
    - Textile arts: TT850.2

## INDEX

- Wall plugs
  - Electric lighting: TK4361+
- Wallboard
  - Engineering materials: TA455.W3
- Wallpaper
  - Wall decoration: TH8423+
- Walls
  - Building construction: TH2201+
  - Building details: TH2251+
  - Reinforced concrete construction: TA683.5.W34
  - Structural engineering: TA660.W3
- Walls above surface
  - Building design and construction: TH2231+
- Walnuts
  - Cooking: TX814.2.W3
- Wankel engines
  - Gasoline automobiles: TL210.7
  - Internal combustion engines: TJ792
- War
  - Environmental effects: TD195.W29
- War damage
  - Airports: TL725.3.D35
- War photography: TR820.6
- War use of airships: TL664.2
- Warehouses
  - Air conditioning: TH7688.W3
  - Building construction: TH4451
  - Fire prevention and extinction: TH9445.W2
  - Plant service facilities: TS189.6
- Warm-air and steam heating systems: TH7635
- Warm-air heating
  - Building construction: TH7601+
- Warm-air heating by convection: TH7633
- Warp knitting
  - Clothing manufacture: TT689
- Washin
  - Airplanes: TL673.W3
- Washing
  - Photographic negatives: TR305
  - Woodpulp industry: TS1176.6.W36
- Washing of coal: TN816.A1+
- Washington system
  - Incandescent gas lighting: TH7955.W3
- Washout
  - Airplanes: TL673.W3
- Washtubs
  - Laundry plumbing: TH6505
- Waste control
  - Production management: TS169
- Waste disposal sites
  - Environmental effects: TD195.W295
- Waste glass
  - Glassmaking: TP859.7
- Waste heat boilers: TJ319
- Waste heat utilization
  - Blast furnaces: TN718
  - Municipal refuse: TD796.2
- Waste minimization
  - Hazardous substances and their disposal: TD1050.W36
  - Industrial and factory wastes: TD897.847
  - Municipal refuse: TD793.9+
- Waste paint
  - Waste disposal: TD800.5
- Waste piping
  - House drainage: TH6658+
- Waste, Plastic
  - Waste disposal: TD798
- Waste prevention
  - Paper manufacture: TS1109
- Waste stack systems
  - House drainage: TH6655+
- Waste tires
  - Waste disposal: TD797.7
- Waste treatment facilities: TD897.6
- Waste treatment facilities, Radioactive: TD898.16
- Waste utilization
  - Chemical technology: TP995+
- Wastes, Hazardous
  - Soil pollutants: TD879.H38
- Wastes, Radioactive
  - Waste disposal: TD812+
- Wastes, Recovery of
  - Precious metals: TS729

## INDEX

- Wasteways
  - Dams: TC555
  - Hydraulic powerplants: TJ851
- Watches
  - Manufactures: TS540+
- Watchmakers' lathes: TS546
- Water
  - Artistic photography: TR670+
  - Brewing and malting: TP583
  - Chemical industry: TP262+
  - Food constituent: TX553.W3
- Water analysis
  - Geophysical surveying: TN269.885
- Water at rest: TC165+
- Water backs
  - Range water heaters: TH6555
- Water, Ballast
  - Water pollution: TD428.B34
- Water channels
  - Aeronautical research: TL567.B4
- Water chemistry
  - Petroleum geology: TN870.515
- Water closets
  - Plumbing: TH6498
- Water columns
  - Railway structures: TF290
- Water conservation: TD388+
- Water conversion, Saline: TD478+
- Water-cooled reactors
  - Nuclear engineering: TK9203.W37
- Water distribution systems
  - Environmental technology: TD480.92+
- Water gages
  - Steam boilers: TJ360+
- Water gas
  - Gas industry: TP760
- Water glass
  - Glassmaking: TP869
- Water glasses
  - Steam boilers: TJ366
- Water hammer
  - Hydrodynamics: TC174
- Water heaters
  - Building construction: TH6551+
- Water heating coils
  - Range water heaters: TH6556
- Water hyacinth craft
  - Decorative crafts: TT877.8
- Water in motion
  - Hydraulic engineering: TC171+
- Water jet peening
  - Manufactures: TS207.3.P44
- Water mains
  - Breaks in: TD495+
  - Water distribution systems: TD491
- Water meters and metering: TD499+
- Water mills: TJ859
- Water pipes
  - Water distribution systems: TD491
- Water pollution: TD419+
- Water-pressure engines: TJ890
- Water purification
  - Environmental technology: TD429.5+
- Water quality: TD370+
- Water quality management
  - Environmental technology: TD365+
- Water quality monitoring: TD367+
- Water rates: TD360
- Water resistance: TC766
- Water resources of a watershed:
  - TC401+
- Water reuse
  - Environmental technology: TD429
- Water softeners
  - Steam boilers: TJ379
- Water softening
  - Chemical technology: TP263
  - Water purification: TD466
- Water-soluble polymers
  - Plastics: TP1180.W37
- Water-soluble preservatives
  - Preservation of wood: TA424.6.W3
- Water supply
  - Communication of information: TD209+
  - Fire prevention and extinction: TH9311+
  - Low temperature sanitary engineering: TD947
  - Papermills: TS1116.2
  - Plumbing in buildings: TH6521+
  - Rural and farm sanitary engineering: TD927



## INDEX

- Water supply
  - Space environment: TL1565
  - Steam boilers: TJ377
- Water supply, Domestic: TD201+
- Water-supply engineering: TC401+
  - Environmental effects: TD195.W3
- Water-supply fixture catalogs: TH6529
- Water supply, Industrial: TD201+
- Water supply utilities' safety measures: TD358
- Water tower systems
  - Fire prevention and extinction: TH9332+
- Water towers
  - Water distribution systems: TD489
- Water treatment and conditioning
  - Environmental technology: TD429.5+
- Water treatment facilities, Ballast
  - Water pollution: TD428.B34
- Water treatment plants
  - Building construction: TH4538
  - Environmental technology: TD434
  - Noise control: TD893.6.W37
  - Waste control: TD899.W3
- Water tube boilers
  - Mechanical engineering: TJ314+
- Water tunnels
  - Hydrodynamics: TC171.5
- Water waste prevention: TD495+
- Water wave loads
  - Structural analysis: TA654.55
- Water waves
  - Hydrodynamics: TC172
- Water (Web authoring software): TK5105.8885.W36
- Water wheels: TJ860+
- Water withdrawals
  - Water distribution systems: TD493
- Waterfront structures
  - Fire prevention and extinction: TH9445.P5
- Watermarks
  - Paper manufacture: TS1115
- Waterpower engineering: TC147
- Waterpower power plants: TK1421+
- Waterproof construction
  - Engineering: TA901
- Waterproofing
  - Protection of buildings: TH9031
  - Textile industries: TS1520
- Watershed management
  - Hydraulic engineering: TC413
- Waterways
  - Inland navigation: TC601+
- Waterworks
  - Energy conservation: TJ163.5.W36
  - Water distribution systems: TD485+
- Waterworks' safety measures: TD358
- Watt-hour meters: TK351
- Wattmeters: TK341
- Wave guides, Optical: TK8305+
- Waveguides
  - Electronics: TK7871.6+
  - Radar: TK6590.W3
  - Radio: TK6565.W3
- Wavelength division multiplexing
  - Telecommunication: TK5103.592.W38
- Wax crafts
  - Decorative crafts: TT866
- Wax figures industry: TS2301.W3
- Wax flowers
  - Decorative crafts: TT894
- Waxes
  - Chemical technology: TP669+
- Wear-testing machines: TA413.85
- Wearable camera photography: TR689
- Weathering
  - Protection of buildings from: TH9039
- Weathering of coal: TN817
- Weaving
  - Cotton manufactures: TS1579
  - Woolen manufactures: TS1629
- Weaving, Hand
  - Textile arts: TT848+
- Weaving, Industrial
  - Manufactures: TS1490+
- Web 2.0: TK5105.88817
- Web authoring software
  - Internet: TK5105.8883+
- Web component
  - Web authoring software: TK5105.8885.W42

## INDEX

- Web server software
  - Internet: TK5105.8883+
- Web services: TK5105.88813
- Web site design: TK5105.888+
- Web site development: TK5105.888+,  
TK5105.8882
- Webcasting
  - Internet: TK5105.887
- Webcompass: TK5105.885.W42
- WebDAV
  - Computer network protocols:  
TK5105.5863
- WebGL (Computer graphics):  
T386.W43
- Weblog software: TK5105.8884
- WebSphere
  - Web authoring software:  
TK5105.8885.W43
- WebTV (Trademark): TK5105.8887
- Wedding photography: TR819
- Wedges
  - Handtools: TJ1201.W44
- Weed-burners
  - Railway operation: TF546
- Weighing and measuring
  - Chemical engineering: TP156.W4
- Weighing systems
  - Electronics: TK7882.W44
- Weightlessness simulators: TL1575
- Weirs
  - Dams: TC555
  - Hydrodynamics: TC175+
- Welded joints, Metal
  - Engineering materials: TA492.W4
- Welding
  - Airplanes: TL671.5
  - Handicrafts: TT211
  - Metalworking: TS227+
  - Petroleum pipelines: TN879.6
  - Plastics: TP1160
  - Rocket manufacture: TL784.5.W4
- Welding shops
  - Dust removal: TH7697.W4
- Well boring
  - Water supply: TD412
- Well digging
  - Water supply: TD412
- Well drilling
  - Petroleum engineering: TN871.2+
- Well logging
  - Petroleum engineering: TN871.35
- Well testing
  - Petroleum engineering: TN871
- Wellpoint system
  - Drainage: TC974
- Wells
  - Pollution: TD426.8
  - Steam boilers: TJ378
  - Steam engines: TJ565
  - Water supply: TD405+
- Welsbach system
  - Incandescent gas lighting:  
TH7955.W4
- Western style cooking: TX715.2.W47
- Westinghouse airbrakes: TF425
- Wet cleaning
  - Commercial garment cleaning:  
TP932.5
- Wetting
  - Chemical engineering: TP156.W45
- Whale meat
  - Cooking: TX748.W48
- Whales
  - Nutrition: TX388.W4
- Whaling
  - Use of airplanes: TL722.2
- Wharves
  - Harbor engineering: TC357
- Wheat
  - Cooking: TX809.W45
  - Food values: TX558.W5
- Wheat germ
  - Cooking: TX809.W453
- Wheat products
  - Food processing and manufacture:  
TP435.W48
- Wheatstone's bridge
  - Electric meters: TK311
- Wheel
  - Mechanical engineering: TJ181.5
- Wheels
  - Airplanes: TL683.W5
  - Cycles: TL422
  - Electric railways: TF949.W5

## INDEX

- Wheels
  - Locomotives: TJ669.W54
  - Motor vehicles: TL270
  - Railroad cars: TF383
- Whirlwind computer: TK7889.W47
- Whiskey
  - Chemical technology: TP605
- White chocolate
  - Cooking: TX767.W48
- White sauce
  - Cooking: TX819.W5
- White trucks: TL230.5.W45
- White work embroidery: TT778.W55
- Whitewashing
  - Building decoration: TH8181
- Whiting
  - Mining engineering: TN948.C5
- Whittling
  - Woodworking: TT199.7+
- WHOIS
  - Computer network protocols: TK5105.5864
- Whole wheat bread: TX770.W56
- Wicker furniture
  - Woodworking: TT197.7
- Wide-angle lenses
  - Photography: TR271.W53
- Wide-angle photography: TR687
- Wide area networks
  - Electrical engineering: TK5105.87+
- Wide-screen processes
  - Cinematography: TR855
- Wideband radar, Ultra-: TK6592.U48
- Wigs
  - Hairwork: TT975
- Wikis
  - Internet: TK5105.8882
- Wild rice
  - Cooking: TX809.W55
- Wildlife
  - Nature photography: TR729.W54
- Wildlife cinematography: TR893.5
- Willowware
  - Manufactures: TS910
- Winches
  - Hoisting machinery: TJ1362
- Winchester rifle: TS536.6.W55
- Wind loads
  - Structural analysis: TA654.5
- Wind power: TJ820+
- Wind power industry
  - Environmental effects: TD195.W54
- Wind pressure
  - Architectural engineering: TH891
  - Bridge design: TG303
- Wind pumps
  - Hydraulic machinery: TJ926
- Wind resistant design
  - Structural engineering: TA658.48
- Wind tunnel models
  - Aeronautical research: TL567.M6
- Wind tunnels
  - Aeronautical research: TL567.W5
- Wind turbines: TJ828
- Windchimes
  - Decorative crafts: TT899.7
- Winding
  - Generators: TK2474+
- Winding machines: TJ1535
  - Electric driving: TK4059.W56
- Windmills: TJ823+
- Window fittings
  - Building design and construction: TH2270+
- Window guards
  - Building design and construction: TH2273
  - Burglar-proof construction: TH9725.W5
- Window openings
  - Building design and construction: TH2264
  - Fittings: TH2261+
- Window shade industry
  - Manufactures: TS2301.W5
- Windows
  - Building design and construction: TH2275
  - Motor vehicles: TL256.5
- Winds
  - Aeronautical meteorology: TL557.A5
- Windshields
  - Airplanes: TL681.W5
  - Motor vehicles: TL256.5

## INDEX

Wine: TP544+  
  Cooking: TX726  
Wine clarification: TP548.5.C53  
Wine lists  
  Hotels, clubs, restaurants, etc.:  
    TX911.3.M45  
Wine service  
  Hotels, clubs, restaurants, etc.:  
    TX925  
Winemaking: TP544+  
Wineries  
  Sanitary engineering: TH6057.W55  
Wing load  
  Aerodynamics: TL574.P7  
Wing skids  
  Airplanes: TL683.S5  
Wing-warping  
  Airplanes: TL678.8  
Winged flight: TL717  
Wire  
  Aeronautics: TL699.W5  
  Engineering and construction:  
    TA492.W7  
Wire broadcasting  
  Radio: TK6562.W5  
Wire craft  
  Metalworking: TT214.3  
Wire glass windows  
  Fire-resistive building construction:  
    TH1069  
Wire-grass industry  
  Wood technology: TS915  
Wire netting  
  Engineering and construction:  
    TA492.W77  
Wire rope  
  Engineering materials: TA492.W8  
  Textile fiber: TS1787  
Wire rope transportation  
  Conveying machinery: TJ1385+  
Wire screens  
  Metal manufactures: TS273  
Wireless application protocol  
  Computer network protocols:  
    TK5105.5865  
Wireless communication systems  
  Electrical engineering: TK5103.2+

Wireless Internet: TK5103.4885  
Wireless LANs: TK5105.78  
Wireless localization  
  Wireless communication systems:  
    TK5103.4895  
Wireless telegraph  
  Amateurs' manuals: TK9946  
  Electrical engineering: TK5700+  
Wireless telephone  
  Amateurs' manuals: TK9956+  
Wiremaking  
  Metal manufactures: TS270+  
Wiremen's manuals  
  Telegraph: TK5445  
Wires  
  Airplanes: TL674  
  Electric power: TK3301+  
  Standards and testing: TK3307  
  Tables of properties and dimensions:  
    TK3305  
  Telegraph: TK5481  
Wiretapping  
  Telephone wires: TK6383  
Wiring  
  Aircraft: TL691.W5  
  Electric lighting: TK4255  
  Electrical engineering: TK3201+  
  Space vehicles: TL1102.W57  
  Telephone circuits: TK6341+  
Woad  
  Textile dyes: TP925.W8  
Wok cooking: TX840.W65  
Wolfram ores: TN490.T9  
Wollastonite  
  Mining engineering: TN948.W6  
Women  
  Hairdressing: TT972+  
  Nutrition: TX361.W55  
  Photographic portraits: TR681.W6  
Women clerks (Retail trade)  
  Photographic portraits: TR681.W62  
Women engineers: TA157.5  
Women, Home arts for: TT697+  
Women in engineering: TA157.5  
Women in technology: T36  
Women's tailoring: TT500+, TT519.5+

## INDEX

### Wood

- Aeronautics: TL699.W6
- Chemical processing: TS920+
- Composition and chemistry: TS932+
- Engineering materials: TA419+
- Fire-resistive building construction:  
TH1073
- Fuel: TP324
- Housing material: TH4818.W6
- Motor vehicle construction materials:  
TL240.5.W64
- Packaging materials: TS198.3.W6
- Pavements: TE253
- Railway construction: TF254
- Sidewalks: TE285
- Stairbuilding: TH5667+
- Trussed bridges: TG375
- Utilization of waste: TP996.W6
- Wood adhesives: TS857
- Wood alcohol
  - Distilling: TP594
- Wood bearings
  - Mechanical engineering: TJ1073.W6
- Wood building construction: TH1101
- Wood chips
  - Woodpulp industry: TS1176.6.W6
- Wood distillation
  - Chemical technology: TP997
- Wood finishing
  - Handicrafts: TT325+
- Wood fuels
  - Central heating: TH7466.W66
- Wood industry
  - Air pollution: TD888.W6
  - Waste control: TD899.W6
- Wood products
  - Fire testing: TH9446.5.W66
  - Manufactures: TS840+
- Wood staining
  - Wood finishing: TT345
- Wood-steel I-beams
  - Structural engineering: TA660.S67
- Wood stove heating
  - Convective heating: TH7437+
- Wood stoves
  - Convective heating: TH7438+
  - Cooking: TX657.S9

### Wood technology

- Manufactures: TS800+
- Wood-using industries
  - Energy conservation: TJ163.5.W66
  - Environmental effects: TD195.W6
- Wood vinegar
  - Chemical technology: TP248.A18
- Wood waste
  - Environmental pollutants: TD196.W66
  - Waste disposal: TD810
- Woodburning
  - Woodworking: TT199.8
- Woodburytype
  - Photography: TR995
- Wooden ceilings
  - Building: TH2533.W66
- Wooden construction
  - Structural engineering: TA666+
- Wooden dams: TC545
- Wooden domes
  - Building design and construction:  
TH2170.85
- Wooden flooring
  - Building construction: TH2529.W6
- Wooden stairbuilding
  - Building construction: TH5670+
- Wooden toys
  - Handicrafts: TT174.5.W6
- Wooden trestles
  - Bridge engineering: TG365
- Woodpulp, Articles manufactured from:  
TS1177
- Woodpulp industry
  - Paper manufacture: TS1171+
  - Waste control: TD899.W65
  - Water pollution: TD428.W65
- Woodshops: TT185.5
- Woodworking
  - Handicrafts: TT180+
- Woodworking, Industrial
  - Manufactures: TS840+
- Woodworking industries
  - Dust removal: TH7697.W6
  - Fire prevention and extinction:  
TH9445.M6
  - Noise control: TD893.6.W65

## INDEX

- Wool
  - Dyeing: TP899
  - Textile fiber: TS1547
- Wool substitutes
  - Woolen manufactures: TS1630
- Woolen machinery
  - Woolen manufactures: TS1633
- Woolen manufactures: TS1600+
- Worcestershire sauce
  - Cooking: TX819.W65
- WordPerfect
  - Web authoring software:  
TK5105.8885.W65
- WordPress
  - Web authoring software:  
TK5105.8885.W66
- Work clothes: TT649
- Work design
  - Industrial engineering: T60.8
- Work diagrams
  - Mechanical engineering: TJ173
- Work measurement
  - Industrial engineering: T60+
- Work sampling
  - Industrial engineering: T60.55
- Work study
  - Industrial engineering: T60+
- Workbenches
  - Woodworking: TT197.5.W6
- Workers
  - Nutrition: TX361.W6
- Working at heights
  - Industrial safety: T55.3.H45
- Working class
  - Photographic portraits: TR681.W65
- Working drawings
  - Mechanical drawing: T379
  - Photographic reproduction processes:  
TR920+
- Working environment
  - Human engineering in industry:  
T59.77
- Working women
  - Nutrition: TX361.W7
- Workmanship, Inspection of
  - Management of engineering works:  
TA191
- Workshop practice
  - Handicrafts: TT153+
- Workshop tools
  - Handicrafts: TT153+
- Workshops
  - Artificial lighting: TH7975.F2
  - Dust removal: TH7697.F2
  - Electric lighting: TK4399.F2
  - Handicrafts: TT152
  - Motorcycles: TL444.5
- World Wide Web
  - Internet: TK5105.888+
- Worm gears
  - Mechanical movements: TJ200
- Wormhole routing
  - Computer networks:  
TK5105.54873.W67
- Worsted machinery
  - Woolen manufactures: TS1633
- Wrapping
  - Packaging: TS198.W7
- Wrapping machines: TJ1550
- Wreaths
  - Decorative crafts: TT899.75
- Wrecking
  - Building construction: TH447
- Wrecking cars
  - Railway equipment: TF490
- Wrecking industry
  - Waste control: TD899.W73
- Wrenches
  - Handtools: TJ1201.W8
- Writing
  - Telegraph: TK5545
- Writing, Technical: T11+
- Wrought iron: TA469+
- Metallurgy: TN720+
- Wrought-iron work
  - Handicrafts: TT240

X

- X-15 program: TL789.8.U6X5
- X.500
  - Computer network protocols:  
TK5105.587

## INDEX

X-ray lasers  
Applied optics: TA1707  
X-ray optics, Applied: TA1775  
X-ray tubes: TK7871.79.X2  
Xenium  
Chemical technology: TP245.X4  
Xenobiotics  
Effect on food: TX571.X45  
Xerography  
Electrostatic printing: TR1045  
Xuan zhi: TS1169  
XY plotters  
Computer engineering: TK7887.8.X18  
Xyloles  
Chemical technology: TP248.X9  
Xylose  
Chemical technology: TP248.X95

## Y

Y tracks  
Railway structures: TF274  
Yahoo!: TK5105.885.Y34  
Yamaha motorcycle: TL448.Y3  
Yard drainage  
Plumbing: TH6671.F6  
Yard management  
Trains: TF590+  
Yard waste  
Waste disposal: TD810.5  
Yarn  
Textile industries: TS1449  
Yashica cameras  
Photography: TR263.Y3  
Yaw  
Aerodynamics: TL574.M6  
Motor vehicle dynamics: TL245.2  
Yeast  
Brewing and malting: TP580+  
Food values: TX560.Y4  
Leavening agents and baking aids:  
TP433  
Yeast biotechnology: TP248.27.Y43  
Yemenite Jewish style cooking:  
TX724.2.Y46  
Yield strength  
Temperature effects: TA418.24+

Yield stress analysis  
Structural analysis: TA652  
Yogurt  
Cooking: TX759.5.Y63  
Nutrition: TX380  
Young men  
Photographic portraits: TR681.Y58  
Youth  
Nutrition: TX361.Y6  
Photographic portraits: TR681.Y6  
Ytterbium  
Chemical technology: TP245.Y8  
Yttrium  
Chemical technology: TP245.Y9  
Engineering materials: TA480.Y8  
Yurts  
Construction: TH4870

## Z

ZBrush (Computer graphics): T386.Z33  
Zebra mussel  
Water pollutants: TD427.Z43  
Zeiss cameras  
Photography: TR263.Z4  
Zener diodes  
Semiconductors: TK7871.89.Z46  
Zeolites  
Mining engineering: TN948.Z4  
Zeppelin: TL658.Z4  
Zilog Model Z-80 computer:  
TK7889.Z54  
Zinc  
Chemical technology: TP245.Z7  
Electronics: TK7871.15.Z56  
Electroplating: TS692.Z5  
Engineering and construction:  
TA480.Z6  
Environmental pollutants: TD196.Z56  
Manufactures: TS640  
Metallurgy: TN796  
Ore deposits and mining: TN480+  
Powder metallurgy: TN697.Z54  
Prospecting: TN271.Z5  
Zinc batteries  
Electricity production: TK2945.Z55

## INDEX

Zinc oxide  
  Chemical technology: TP936+  
Zippers  
  Women's tailoring: TT557  
Zirconium: TN490.Z5  
  Chemical technology: TP245.Z8  
  Engineering materials: TA480.Z65  
  Metallography: TN693.Z5  
  Metallurgy: TN799.Z5  
Zone melting  
  Chemical engineering: TP156.Z6  
  Electrometallurgy: TN686.5.Z6  
Zoning  
  Airports: TL725.3.Z6  
Zoom lenses  
  Photography: TR271.Z65  
Zope  
  Web authoring software:  
    TK5105.8885.Z65  
Zucchini  
  Cooking: TX803.Z82